



Hager

EVERYTHING HINGES ON HAGER

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CATALOG 15

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EVERYTHING HINGES ON *Hager!*®

HINGES / BUILDERS' HARDWARE

factory and warehouses...

HAGER ST. LOUIS

HAGER ATLANTA

HAGER BOSTON

HAGER CLEVELAND

HAGER DALLAS

HAGER DENVER

HAGER HAWAII

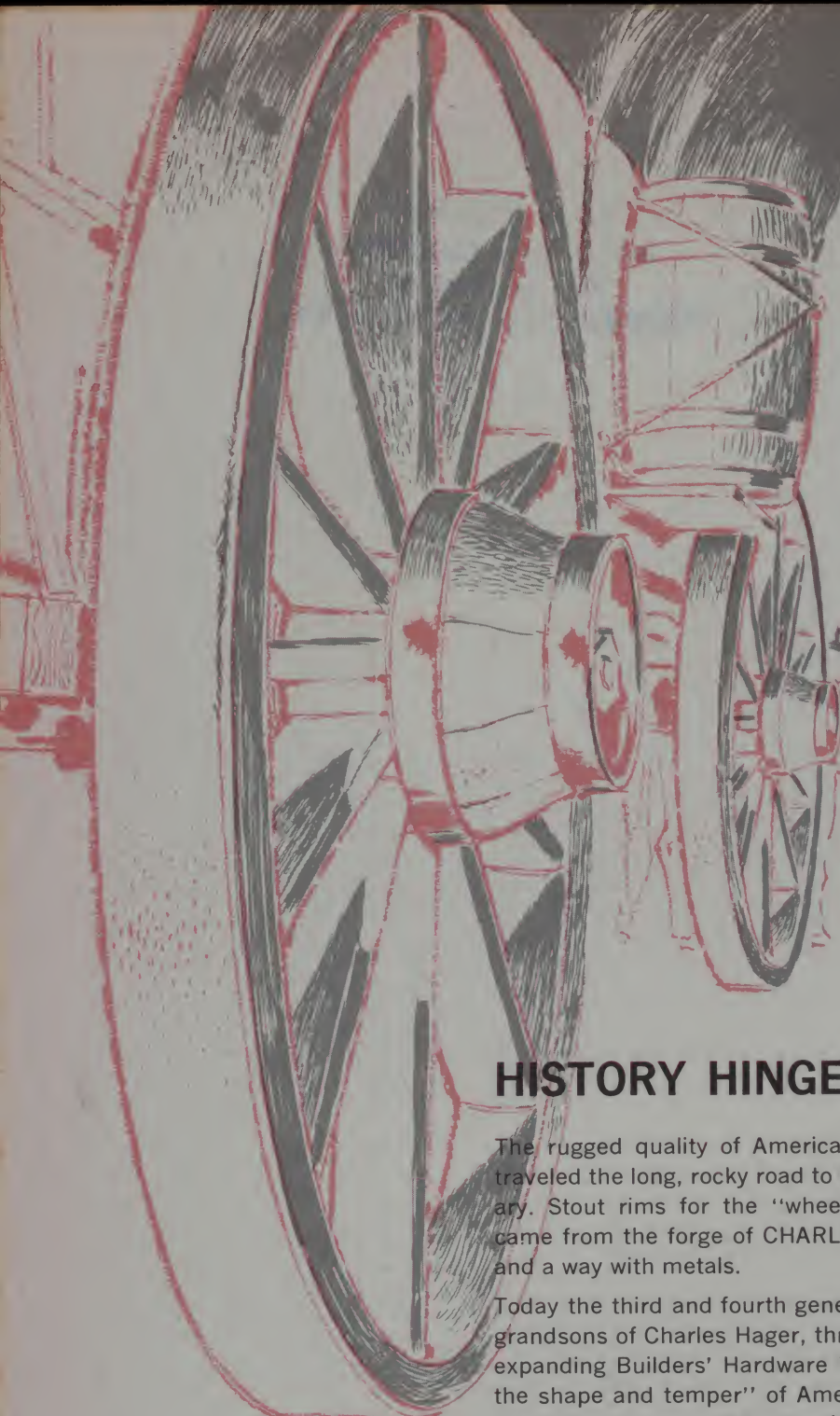
HAGER LOS ANGELES

HAGER NEW YORK

HAGER SAN FRANCISCO

HAGER SEATTLE

HAGER CANADA



Catalog 15 contains illustrations and specifications of more than 5,000 different types and sizes of Hager hinges. It is your complete reference catalog in this field; covers "favorite" designs introduced by Hager over the years (many are now standards of the industry) plus all the new hinges and builders' hardware products created by Hager for the modern, space-age architecture of the 60's.

HISTORY HINGES ON HAGER!

The rugged quality of America's Prairie Schooners, which traveled the long, rocky road to California in 1849, is legendary. Stout rims for the "wheels that never quit turning" came from the forge of CHARLES HAGER. He had a knack and a way with metals.

Today the third and fourth generation grandsons and great-grandsons of Charles Hager, through their leadership in the expanding Builders' Hardware Industry, continue to "forge the shape and temper" of America's future in metals. The hands have never lost the touch.

Accept . . . from the heritage family of Hager . . . this maker's mark for what it is: a guarantee of finest quality. There is nothing better in the Builders' Hardware market.



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Hager

EVERYTHING HINGES ON HAGER

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General Information



INTRODUCTION

This catalog lists and describes more than 2,500 types and sizes of Hager Hinges. We believe this to be the largest selection available from any hinge manufacturer. Architectural firms, hardware consultants, and hardware and building supply dealers will find hinges in all the standard hardware sizes and finishes specified for various types and weights of doors and door jambs.

Should a particular need or design preference require variation or a complete departure from hinges shown, Hager welcomes this opportunity to create special hinges to your specifications. Facilities are here to produce them with minimum adjustment. Hager's years of experience in hinge designing can be of special value to those faced with unconventional applications.

Hager hinges are available through eight warehouses where complete stocks of types and sizes are carried.

Conveniently near, too, is a Hager representative to work with you. And direct factory contact with Hager Hinge Co. in St. Louis is but a matter of minutes in today's fast communication system.



"EVERYTHING HINGES ON HAGER" . . .

A Concept Given Substance by the Quality behind It

The trouble-free service of Hager Hinges through the years is a silent tribute to quality standards maintained by the Hager organization.

Trial and error, test and retest . . . these bring out causes of hinge failures and write our specifications that prevent them from happening to a Hager Hinge.

Our 113 years of attention to hinge developments cover a wide range of new and unique applications. But no matter how unusual the construction, Hager quality is "designed in."

This respect for craftsmanship, this concern for those whose own professional standards are reflected in materials they specify, and our gratification in knowing that millions of people are better served through Hager Hinges . . . these personal attributes play a great part in the Hager quality tradition.

Some evidence of Hager care in manufacture

- Where a rust-resistant base is desired, Hager Hinges are cadmium plated or zinc plated before the final finish.
- All plated finishes are well lacquered to retard oxidation (tarnishing) of the finish.
- Hinges for painting are first bonderized, then prime coated. (Bonderizing provides excellent adhesion of

the prime coat to the metal, thus avoiding chipping or peeling of paint.)

- Where there is a Federal Specification category, there is a Hager Hinge to meet or exceed its requirements—the gauge of metal, the hinge size to support specified door weight, the type of finish, etc.
- Refinements such as beveling of brass and bronze hinges to insure close-fitting joints and special milling of knuckles on ball bearing hinges for proper seating of the bearing.
- Streamline designing of the new Hager Slimline 5 to bring the ball bearing flush with the knuckle of the hinge. This redesigning to meet the demands of modern day architecture has been achieved by Hager without sacrifice of quality, strength, or serviceability. The five-knuckle design has two bearing surfaces instead of the single surface on three-knuckle types. The pin size is larger even though design is Slimline. The pin actually provides $\frac{1}{3}$ more shear and tensile strength.

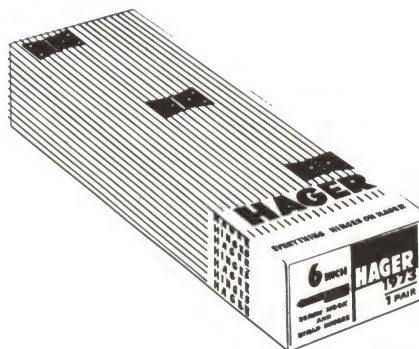


PACKAGING

Hager Package Design Gives Quality Appearance, Quick Identification

Gloss-white faces give added richness to Hager hinge packages. The familiar red pin-stripe pattern with the overprint of three hinges is distinctive design for the package top.

A miniature picture of the item packaged is shown on the attractive, three-color label as well as the finish symbol of the U. S. Bureau of Standards, and the Hager Catalog Number and quantity.



General Information

The weight of the paperboard used and the reinforcing of flaps with staples or strong adhesives are determined by the weight of the particular size and number of hinges in each container. Large hinges such as the 10-inch hasp type (packed 5) are packed in boxes of double-wall corrugated fibreboard of 200 lbs. test.

Further packaging refinement includes the wrapping of non-ferrous metals and highly polished steel hinges in specially treated anti-tarnish tissue paper to protect the finish. Screws are wrapped or bagged separately and packed with the hinges in each box.

The variety of hinge types and sizes are package correlated so they stack attractively in mass displays. They keep their shelf-fresh look and enliven the appearance of the hinge department.

Whether for shelf or contract stock, Hager Hinges are packed handily for reshipment. They carry the quality impression right on to the job scene.



HAGER CARDED LINE

Many Hager items are carded in see-through packages for pegboard display. (See page 99 for Hager Handy Hardware display that reduces "out of stock" items and simplifies inventory control.



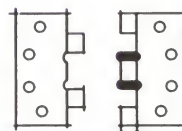
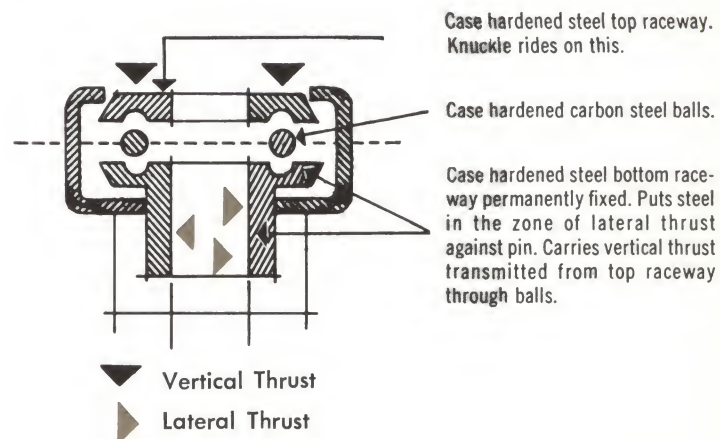
"LIFE-TIME BEARING"

Hager BALL BEARING Butt Hinges Give Quiet Operation, Reduce Friction

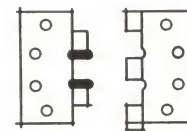
Frictionless ball bearing gliding action is recommended for heavy doors, doors receiving high frequency service and doors requiring silent operation. Hollow metal doors and doors equipped with door closers should also be hung on ball bearing Butts.

Hager Ball Bearing Butt Hinges are functionally engineered to throw knuckle weight against special hardened steel top races, which, in turn, ride on hardened balls. The one-piece cup jacket protects the hardened steel races and ball bearings from moisture and dust. The jacket supports no weight so it is not subjected to functional friction, pressure or wear.

Lateral wear is minimized since the pin is held against thrust by the hardened steel top and bottom races of the ball bearings. The pin does not wear against any brass shell as is the case in some type ball bearing butts. Ball bearing units are securely attached to the leaf knuckle to prevent loss when the hinge is taken apart.



NOT THIS . . .
not one-knuckle-bored with wear-away brass to anchor the bearings. (Bearings finally fall out when pin is removed)



BUT THIS . . .
two-knuckle-bored construction with bearings anchored with case hardened steel.

Hager Ball Bearing Butts are available with either two bearings or four bearings. One-half of the bearing units support the thrust of the vertical load in any given installation. Thus only one bearing of a two-bearing butt carries the vertical load, and only two bearings of a four-bearing butt carry the load.

Four-bearing butts are needed to provide continued floating silent service for heavier doors or doors receiving frequent use.



General Information



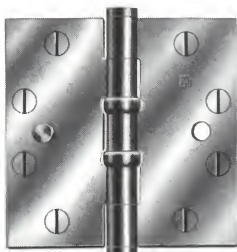
APPROVAL

Hager Hinges have been approved by the U. S. Corps of Engineers and by The Veterans Administration for use on all Veteran Hospitals and on other buildings which would come under their jurisdiction. Approved samples are on file at the National Bureau of Standards, Washington, D. C.

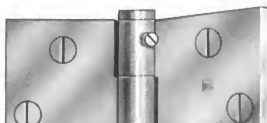


SECURITY

The Hager "Syncretized" Safety Stud makes the hinge as tamper proof as any hinge could be. It is more than just a guard against pin removal. The Syncretized Safety Stud "locks" the hinge leaves when the door closes, buries itself beyond a prowler's reach, and anchors securely into the hole in the opposite leaf. Even with the hinge pin removed, the door won't budge, because the rugged stud won't let the leaves slide out. When the door is open, the stud is inconspicuous . . . when the door closes, it becomes an extra safety factor, giving maximum security usually desired on exterior doors that open out. This feature is available on all Hager Butt Hinges. Specify symbol SH.



With the Hager Non-Removable Pin, a small set screw in the top knuckle of the hinge barrel anchors into a hole tapped in the hinge pin. It is positioned so that it cannot be reached unless the hinge is open, merely remove the set screw and tap pin from bottom in the usual way. The non-removable pin is available on all Hager Butt Hinges. Specify symbol NRP.



HINGE SWAGING

All butt hinges for mortise application are swaged to reduce the clearance between the door (closed) and jamb. The standard clearance between leaves of full mortise hinges after swaging is $\frac{1}{16}$ ".

swaged—for mortise application



hinge opened



hinge closed

All butt hinges for surface application are not swaged. Hinges not swaged are also termed Flat Back. Hinges not swaged (flat back hinges) are slightly less in width than swaged hinges. The symbol (FS) should be used to denote no swaging.

not swaged—for surface application



hinge opened



hinge closed

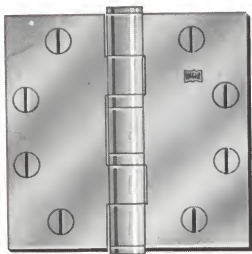
General Information



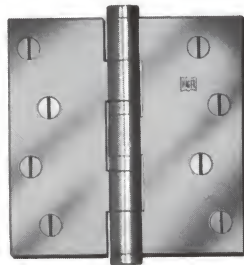
TEMPLATE HINGES

Hager template hinges, conforming to U. S. Government Commercial Standard CS9-33, are made exact in size, gauge of metal and screw hole location. Each individual hinge is carefully inspected and gauged. All Full Mortise template hinges are regularly packed with $\frac{1}{2}$ machine screws and $\frac{1}{2}$ wood screws for use with wood doors and steel jambs. When ordering for steel door and steel jamb, specify "All Machine Screws" (AMS).

Screw hole locations



Size 4 1/2" x 4 1/2"
template hinge



size 4 1/2" x 4 1/2"
non-template hinge

A book of all Hager blue print templates showing actual measurements, gauge of metal, exact hole location, and size of screws is available without charge.



BEVELED JOINTS



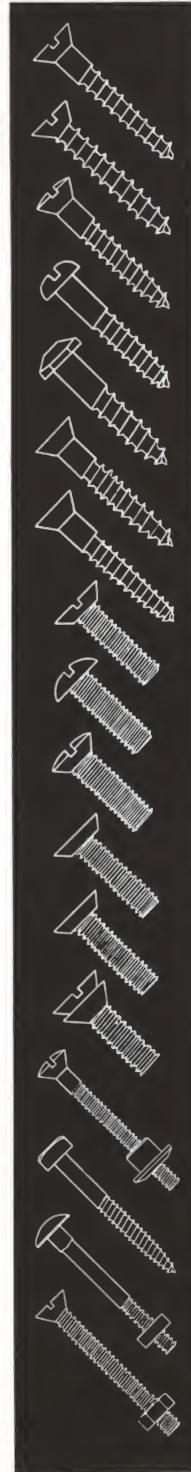
Beveled Joint



Joint not Beveled

On the higher quality hinges such as BB-1174, BB-1193, and Extra Heavy hinges, the inner edges of the leaves are beveled to conform to the shape (diameter) of the barrel and form a perfect close fitting joint. This process adds greatly to the appearance of the hinge.

SCREWS AND BOLTS

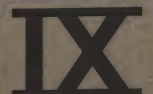


1. flat head wood screw
2. sheet metal screw
3. oval head wood screw
4. round head wood screw
5. pyramid head wood screw
6. *Phillips head wood screw
7. *spanner head wood screw
8. flat head machine screw
9. round head machine screw
10. oval head machine screw
11. *Phillips head machine screw
12. *spanner head machine screw
13. *slotted twin head machine screw
14. oval head machine screw with grommet nut
15. lag screw
16. carriage bolt
17. *flat head stove bolt

*Not Furnished Standard
Price on Request



EVERYTHING HINGES ON HAGER



Underwriters Hinge Requirements



CLASS "A" SITUATIONS Hollow Metal Doors

Only extra heavy steel hinges of .180 gauge minimum thickness and 4½" minimum height are approved. If the hinges are exposed to a corrosive atmosphere, the finish must have a rust resisting base.

Hager Hinges Meeting Class A Requirements

FULL MORTISE

BB-1168
HTBB-1168
1ABB-1168
2ABB-1168

HALF MORTISE

BB-1138
HTBB-1138

HALF SURFACE

BB-1163
HTBB-1163

FULL SURFACE

BB-2169
HTBB-2169

BB-1264
1167
BB-2098

HTBB-1264
HTBB-2098

FULL SURFACE

BB-2171
BB-2109
BB-2169
BB-1266
BB-2169½
BB-2109½

HTBB-2171
HTBB-2109
HTBB-2169
HTBB-1266
HTBB-2169½
HTBB-2109½

HALF SURFACE

BB-1163
BB-1173
1173
BB-2113

HTBB-1163
HTBB-1173
BB-1150
HTBB-2113

Olive Knuckle

BB-1142



CLASS "B," "C," "D" OR "E" SITUATIONS Hollow Metal, Kalamein, and Composition Core Doors

STEEL HINGES of .134 gauge minimum thickness and 4½" minimum height are approved for doors up to 8 feet in height. All doors over 8 feet in height shall be hung on hinges of .180 gauge minimum thickness and 4½" minimum height. Doors not exceeding 3 feet in width and 5 feet in height may be hung on hinges of .130 gauge minimum thickness and 4" minimum height. Steel olive knuckle hinges may be used providing that they are not less than 6" in height and 0.225" in thickness.

BRONZE HINGES for openings of these classes are approved only in the full mortise type and must be of .180 gauge minimum thickness and 4½" minimum height. They may be used only where doors and frames are provided with a steel stud and socket in the hinge stile of the door. One stud and socket must be provided by the door or frame manufacturer for each hinge.

Hager Hinges Meeting CLASS "B," "C,"
"D" or "E" Requirements
FULL MORTISE

BB-1168
1174
HT-1174
1279
BB-1199
BB-1270

HTBB-1168
BB-1174
HTBB-1174
BB-1279
HTBB-1199
HTBB-1270

HALF MORTISE

1129
BB-1167
BB-1138

BB-1129
HTBB-1167
HTBB-1138



ACCESS DOOR & TRANSOMS

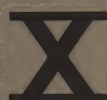
Access doors and transoms not exceeding 3 feet in height and two feet in width shall have hinges of .092 gauge minimum thickness and 3" minimum height.



HINGE SPACING

Door Height	Hinges Required
To 60" inclusive	2 hinges
61" to 90" inclusive	3 hinges
91" to 120" inclusive	4 hinges
Transom Width	Hinges Required
To 48" inclusive	2 hinges
49" to 84" inclusive	3 hinges

Note: All of the above information is for your convenience. Underwriters Laboratories, Incorporated is the final authority on their own requirements.



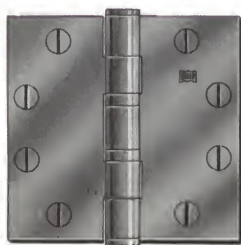
EVERYTHING HINGES ON HAGER

Selecting Proper Hinge

HOW TO SELECT THE PROPER HINGE

- 1 Determine **TYPE** of hinge required.
- 2 Determine hinge **WEIGHT** and **BEARING STRUCTURE** required.
- 3 Determine type of **METAL** desired.
- 4 Determine **FINISH** desired.
- 5 Determine **SIZE** of hinge required.
- 6 Determine **PIN** or **TIP STYLE** desired.
- 7 Determine **HAND** of hinge (if necessary).

This catalog is indexed to help you determine the proper type of hinge for any given application. The first four sections of this catalog are indexed into these four types of hinges:



Full Mortise



Half Surface



Half Mortise



Full Surface

Selecting Proper Hinge

1. Determine **TYPE** of hinge according to **application** to be made.

Knowing the **type** of door (i.e., wood, hollow metal, etc.), and the **type** of jamb (i.e., wood, pressed steel, etc.), the **type** of hinge must be determined.

All hinges fall into one of four types, or classifications. They are:

(a) Full Mortise

(b) Half Surface

(c) Half Mortise

(d) Full Surface

These names clearly indicate the type of hinge by describing the particular application for each type. **Full Mortise** hinges are mortised fully, i.e., into **both** door and jamb. **Half Surface** hinges are only **half** applied to the surface, i.e., they are applied to the surface of the **door**, but mortised into the jamb. **Half Mortise** hinges are mortised into the door and applied to the surface of the jamb. **Full Surface** hinges are applied fully to the surface, i.e., to **both** door and jamb surface.

Knowing the type of door and jamb for the particular hinge application, use Table 1 to determine the proper type of hinge.

TABLE 1

TYPE OF DOOR	Wood Doors		Kalamein Doors			Hollow Metal doors		Tubular Steel Doors	Angle Iron
TYPE OF JAMB	Wood	Pressed Steel	Kalamein	Channel Iron	Pressed Steel	Pressed Steel	Channel Iron	Channel Iron	Channel Iron
USE THIS TYPE OF HINGE	Full Mortise (Non-Temp.)	Full Mortise (Template)	Half Surface (Non-Temp.)	Full Surface (Template)	Half Surface (Template)	Full Mortise (Template)	Half Mortise (Template)	Full Surface (Template)	Full Surface (Template)

Note that the Full Mortise as well as the Half Surface applications are **subdivided** into a Template and Non-Template group. The template hinges are used where the hole location on the hinges must be exactly the same as those previously drilled on the jamb and/or the door.

2. Determine hinge **WEIGHT** and **BEARING STRUCTURE** required.

There are three groups from which to choose the proper **weight** and **bearing structure**. They are:

(a) Regular Weight—Plain Bearing (b) Regular Weight—Ball Bearing (c) Extra Heavy—Ball Bearing.

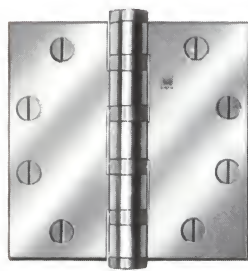
The **weight** of the door and its **frequency** of use determine the proper hinge **weight** and **bearing structure** to choose. **Frequency** refers to door-swing. The number of times a given door is opened and closed during a set period of time determines whether its frequency of use is **High**, **Medium**, or **Low**.

(Continued)

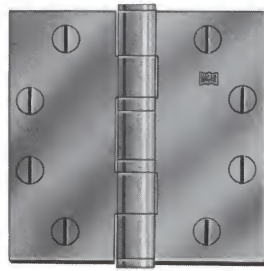
Selecting Proper Hinge

HINGE WEIGHT AND BEARING STRUCTURE (Continued)

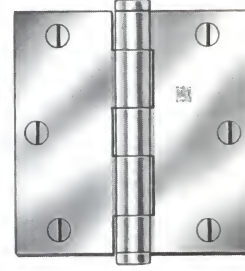
Table 2 (below) estimates the frequency of most common installations. Low Frequency Doors should use Regular Weight—Plain Bearing Hinges. Medium Frequency Doors should use Regular Weight—Ball Bearing Hinges. High Frequency Doors should use Extra Heavy—Ball Bearing Hinges.



EXTRA HEAVY BB



REGULAR WT. BB



REGULAR WT. PB

The above recommendations apply to all **average weight** doors. Table 3 (see next page) indicates the relative weights of the most common doors. Extra Heavy Ball Bearing Hinges should be used for any large door, i.e., any door 2" or more in thickness and over 3' in width.

ALL DOORS ON WHICH A CLOSING DEVICE IS USED SHOULD BE EQUIPPED WITH BALL BEARING HINGES, IRRESPECTIVE OF ITS FREQUENCY.

TABLE 2

TYPE OF BUILDING AND DOOR	EXPECTED FREQUENCY		
	DAILY	YEARLY	
Large department store entrance	5,000	1,500,000	HIGH FREQUENCY
Large office building entrance	4,000	1,200,000	
Theatre entrance	*1,000	450,000	
Schoolhouse entrance	1,250	225,000	
Schoolhouse toilet door	1,250	225,000	
Store or bank entrance	500	150,000	MEDIUM FREQUENCY
Office building toilet door	400	118,000	
Schoolhouse corridor door	80	15,000	
Office building corridor door	75	22,000	
Store toilet door	60	18,000	
Dwelling house entrance	40	15,000	LOW FREQUENCY
Dwelling house toilet door	25	9,000	
Dwelling house corridor door	10	3,600	
Dwelling house closet door	6	2,200	

*Per Performance



EVERYTHING HINGES ON HAGER



Selecting Proper Hinge

TABLE 3

Approx. Door Weight In Pounds Per Square Foot

THICKNESS	1 3/4"	1 3/4"	2"	2 1/4"	2 1/2"
Ash	4 1/2	5 1/4	6	6 3/4	7 1/2
Birch	3 3/4	4 1/3	5	5 3/4	6 1/4
Fir	3	3 1/2	4	4 1/2	5
Mahogany	4 1/2	5 1/4	6	6 3/4	7 1/2
Oak	6	7	8	9	10
White Pine	3	3 1/2	4	4 1/2	5
Hollow Core	2	2 1/2	...	...	...
Solid Core	2 1/2	3	...	...	...
Kalamein .....	...	5	...	...	...
Hollow Metal	6 1/2	6 1/2	6 1/2	6 1/2	...
Tubular Steel .....	...	5	...	...	...

3. Determine type of **METAL** desired.

There are four metals from which almost all hinges are manufactured. They are:

TYPE OF METAL	QUALITIES
Steel	Ferrous—corrosive—has great strength.
Stainless Steel	Ferrous—rust-proof—has strength and decorative value.
Brass or Bronze	Non-ferrous—rust-proof—has decorative beauty.
Aluminum	Non-ferrous—rust-proof—for matching aluminum trim.

The type of metal required depends on where the hinge is to be used. This means considering geographical location and atmospheric conditions as well as the possible decorative value and strength of the particular metal.

For instance, a non-ferrous, rust-proof metal, such as brass or bronze, would be better in applications where the hinge is exposed to excessively corrosive conditions, i.e., in the salt air of the seaboard or in industries where acid atmospheric conditions exist. The main consideration when choosing **type of metal** is whether or not a ferrous (corrosive) or a non-ferrous (rust-proof) base is better. When an Underwriters' label is desired, their requirements must be adhered to as to type of metal.

Selecting Proper Hinge

HOW TO SELECT THE PROPER HINGE

4. Determine **FINISH** desired.

Finishes available for standard butt hinges include all finishes listed in our chart of available finishes on page XXVIII. This chart includes the majority of U. S. Standard Finishes as well as additional decorative finishes. It should be noted here that the greater number of these available finishes are merely decorative, and should not be considered as affording a definite lasting protection against rust. For absolute assurance against rust, **non-ferrous** metals should be used. Where a rust-resisting base (not guaranteed against rust) is desired, Hager Hinges are first cadmium or zinc plated prior to the final finish. Both chromium and galvanized finishes provide still greater protection against rust. However, once again, for absolute assurance against rust, non-ferrous metals should be used.

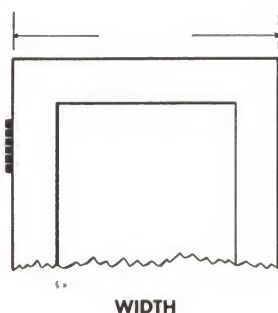
All plated finishes are well lacquered to retard the oxidation (tarnishing) of the finish. The major exception is chromium. It will **not** tarnish in its natural finish.

Hinges for painting are first bonderized, then prime coated. Bonderization provides unexcelled adhesion of the prime coat to the metal, thus avoiding chipping or peeling of the paint.

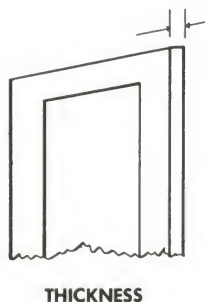
5. Determine **SIZE** of hinge required.

The correct size of hinge required for any given use is determined by three factors. They are:

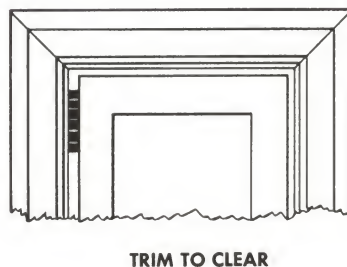
(a) Door size (width)



(b) Door thickness



(c) Trim clearance necessary



The door width and door thickness determine the **length** of the hinge (the length of the barrel, not including tips). The door thickness and trim clearance necessary determine the **width** of the hinge (measured across the leaves when the hinge is fully open). Where Underwriters' labels are necessary their requirements must be adhered to.

Selecting Proper Hinge

How to Determine the Proper Hinge Length

Knowing the door size (width) and door thickness, use Table 4 to determine the proper hinge **length**.

TABLE 4

Thickness of Doors in Inches	Width of Doors Height of Transoms in Inches	Height of Butt Hinges (Length of Joint), inches
3/4 to 1 1/8 cabinet doors	To 24	2 1/2
7/8 to 1 1/8 screen doors	To 36	3
1 3/8 doors	To 32	3 1/2
1 3/8 doors	Over 32 to 37	4
1 3/4 doors	To 36	4 1/2 *
1 3/4 doors	Over 36 to 48	5 *
1 3/4 doors	Over 48	6 *
2, 2 1/4 and 2 1/2 doors	To 42	5 Extra heavy
2, 2 1/4 and 2 1/2 doors	Over 42	6 Extra heavy
1 1/4 and 1 3/8 transoms		3
1 3/4 transoms		3 1/2
2, 2 1/4 and 2 1/2 transoms		4

*Extra heavy hinges should be specified for heavy doors and for doors where high frequency service is expected.

Doors 60 inches high and under	2 butt hinges
Doors over 60 inches high and not over 90 inches high	3 butt hinges
Doors over 90 inches high and not over 120 inches high	4 butt hinges
Transoms 48 inches wide and under	2 butt hinges
Transoms over 48 inches wide and not over 84 inches wide	3 butt hinges

How to Determine the Proper Hinge Width

Knowing the door thickness and trim projection, use the following formula for determining minimum hinge **width** of all Full Mortise hinges **only**.

FOR DOORS UP TO 2 1/2" IN THICKNESS:

Twice the door thickness plus trim projection, equals the proper hinge **width** for regular weight hinges.

FOR DOORS 2 1/2" TO 3" IN THICKNESS:
AND WHENEVER EXTRA HEAVY HINGES ARE REQUIRED

Twice the door thickness plus trim projection
plus 1/4", equals the proper hinge **width**.

If the fraction in the answer falls between regular hinge sizes, use the nearest **larger** size.

The formula for doors up to 2 1/4" in thickness is figured on hinges set back 1/4" from edge of door. On doors 2 1/2" to 3" in thickness, the formula is figured on hinges set back 3/8" from door edge.

(Continued)

Selecting Proper Hinge

Table 5 indicates the trim clearance provided by hinges of specified widths on doors of standard thickness. For doors of thicknesses other than those listed in Table 5, apply the proper formula.

TABLE 5

THICKNESS OF DOOR	WIDTH OF HINGE	MAXIMUM CLEARANCE PROVIDED	The hinge width of Half Mortise, Half Surface, and Full Surface hinges is standard, depending on the hinge length . Note that in these hinge types, the amount of clearance available is determined by the amount of offset and not by the hinge width.
1 3/8"	3 1/2"	1 1/4"	
	4"	1 3/4"	
	4 1/2"	2 1/4"	
1 3/4"	4"	1"	
	4 1/2"	1 1/2"	
	5"	2"	
	6"	3"	
2"	4 1/2"	1"	
	5"	1 1/2"	
	6"	2 1/2"	
2 1/4"	5"	1"	
	6"	2"	

6. Determine **PIN** or **TIP STYLE** desired.

The six available **pin** or **tip** styles from which to choose are shown on the following page.

- (a) Flat Button Tips are standard for the majority of hinges and will be furnished unless otherwise specified.
- (b) Ball Tips will be furnished when specified on Contract Grade Hinges only. Specify "BT."
- (c) Hospital Type have the ends of the barrel rounded for added safety as well as cleanliness. Specify "HT."
- (d) Oval Head Tips are furnished only on hinges with loose pins and no plugs.
- (e) Steeple Tips are furnished for use with colonial or wrought iron finishes when specified. Specify "ST."
- (f) Fast riveted pins have both ends spun making the pin permanent. Specify "FRP."

Non-removable Pins (set-screw in barrel) as shown in illustration can be furnished on any type butt hinge upon request. Specify "N.R.P." Hospital type hinges have pins fixed in place by a rivet that penetrates the hinge barrel and pin.



FLAT BUTTON
TIP



BALL
TIP



HOSPITAL
TYPE



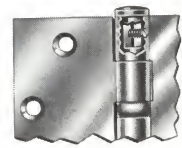
OVAL HEAD
TIP



STEEPLE
TIP



FAST RIVETED
PIN



NON-REMOVABLE
PIN

Selecting Proper Hinge

7. Determine **HAND** of hinge (if necessary).

The **hand**, that is, **right hand** or **left hand** of loose joint butt hinges, and also olive knuckle hinges, must be determined and specified when ordering by suffixing the symbols RH and LH to the catalog numbers. All Half Surface, Half Mortise, and Full Surface hinges are assembled at the factory for **right hand** use. However, these hinges can be reversed for **left hand**, use by merely unscrewing the slotted plug and reversing the location of the pin and plug.

DOORS OPENING IN



OUTSIDE

Left Hand Door
Takes
Left Hand Hinges



OUTSIDE

Right Hand Door
Takes
Right Hand Hinges

DOORS OPENING OUT

INCLUDING BOOKCASE, CLOSET AND CABINET DOORS



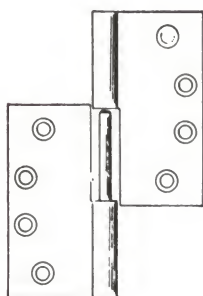
OUTSIDE

Left Hand Reverse Door
Takes
Right Hand Hinges

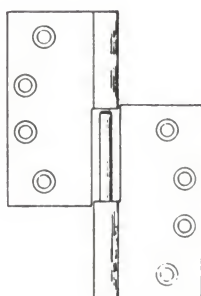


OUTSIDE

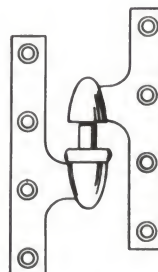
Right Hand Reverse Door
Takes
Left Hand Hinges



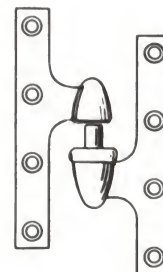
LEFT HAND



RIGHT HAND



LEFT HAND



RIGHT HAND

The **hand** of a butt hinge is determined from the outside of the door to which it is applied. The outside of a cabinet, bookcase, or closet door is the room side. For other doors, the outside is usually the "push" or jamb side.

Selecting Proper Hinge

HAND OF HINGE (Continued)

If when standing outside, a door opens FROM you to the right, it takes **right hand** butt hinges; if to the left, it takes **left hand** butt hinges.

If when standing outside, a door opens TOWARD you to the right, it takes **left hand** butt hinges; if to the left, it takes **right hand** butt hinges.

Reverse Bevel doors are doors opening out.

A simple method of determining the hand of a hinge required is: Stand with your back to the hinge side of the jamb. If the door opens to your right, it takes a **right hand** hinge; if to the left, it takes a **left hand** hinge. This method gives the hand of the hinge which should be used, but does not necessarily give the hand of the door.

A simple method of determining the hand of a loose joint or olive knuckle butt hinge not so marked is: Hold the hinge open, with the hinge face toward you. If you can hold the hinge by the right hand leaf in a vertical position without the hinge falling apart, it is a **right hand** hinge. If you must hold the left hand leaf so the hinge will not fall apart, it is a **left hand** hinge.



Contract Hardware Hinge Selector

HINGE DESCRIPTION	Full Mortise	
	Hollow Metal or Wood	Wood
	Pressed Steel	Wood
Type of Door		
Type of Frame		
4BB, Ex. Hvy., Bevel Innerleaf, Steel	BB-1168	BB-1250
4BB, Ex. Hvy., Bevel Innerleaf, Brass	BB-1199	BB-1502
2BB, Reg. Wt., Bevel Innerleaf, Steel	BB-1174	BB-1239
2BB, Reg. Wt., Bevel Innerleaf, Brass	BB-1193	BB-1500
2BB, Reg. Wt., Steel	BB-1279	BB-1241
2BB, Reg. Wt., Brass	BB-1191	BB-1184
Reg. Wt., Bevel Innerleaf, Steel	1174	1239
Reg. Wt., Bevel Innerleaf, Brass (Steel-bushed)	1193	1500
Reg. Wt., Steel	1279	1241
Reg. Wt., Brass	1191	1184
Anchor Hinge Sets, 1 Anchor, Steel	1A-BB-1168	1A-BB-1168
Anchor Hinge Sets, 1 Anchor, Brass	1A-BB-1199	1A-BB-1199
Anchor Hinge Sets, 2 Anchor, Steel	2A-BB-1168	2A-BB-1168
Anchor Hinge Sets, 2 Anchor, Brass	2A-BB-1199	2A-BB-1199
Cabinet Hinges, Broad, Steel		1289
Cabinet Hinges, Broad, Brass		1589
Cabinet Hinges, Narrow, Steel		1295
Cabinet Hinges, Narrow, Brass		1595
Executive Hinge, Steel	BB-1143	
Executive Hinge, Brass	BB- 293	
Friction Hinge, Ex. Hvy. Steel	1153	
Olive Knuckle, 1BB, Ex. Hvy. Steel	BB-1142	
Olive Knuckle, 1BB, Ex. Hvy. Brass	BB- 292	
Olive Knuckle, 1BB, Reg. Wt., Steel	BB-1141	BB-1201
Olive Knuckle, 1BB, Reg. Wt., Brass	BB- 195	BB-1100
Olive Knuckle, Residential, Cast		1140
Olive Knuckle, for cabinets, Steel		1201
Pivot Hinges, Ball and Needle Bearing		
Top	295	295
Gun Metal	296	296
Intermediate	297	297
Bottom		
Swing Clear Hinge, 4 BB, Ex. Hvy., Steel	BB-1268	
Transom Hinges		
Reg. Wt., Bevel Innerleaf, Brass	1548½	1508½
Reg. Wt., Steel	1178	1291
Reg. Wt., Brass	1578	1591
Wide Throw, 2BB, Reg. Wt., Steel	WT-BB-1279	WT-BB-1241
Wide Throw, 2BB, Reg Wt., Brass	WTBB-1191	WTBB-1184
Wide Throw, Reg. Wt., Steel	WT-1279	WT-1241
Wide Throw, Reg. Wt., Brass	WT-1191	WT-1184
Residential, Special Weight		1741

For Hospital Tips, use Prefix "HT" on above numbers.
 For Aluminum, use prefix "ALD" on brass numbers.
 For Stainless Steel, use Prefix "SS" on brass numbers.

Available "HT" numbers are listed on following page in numerical sequence.
 Available "ALD" numbers are listed on following page in numerical sequence.
 Available "SS" numbers are listed on following page in numerical sequence.



EVERYTHING HINGES ON HAGER

Half Surface		Half Mortise		Full Surface	
Kalamein or Wood	Hollow Metal or Wood	Hollow Metal or Wood	Hollow Metal or Wood*	Kalamein or Wood	Tubular Steel
Pressed Steel	Kalamein or Wood	Channel Iron	Channel Iron	Channel Iron	Channel Iron
BB-1163 BB-2113		BB-1138 BB-2098		BB-2169 BB-2109	BB-2169½ BB-2109½
BB-2112 BB-1173	BB-2116 BB-1150	BB-1167 BB-1108	BB-1129 BB-1109	BB-2110 BB-2171	
1173 2112	1150 1550	1167 1108	1129 1109		
BB-1270		BB-1264		BB-1266	
	1164				

*Door leaf of hinge $\frac{3}{16}$ "
longer than standard



EVERYTHING HINGES ON HAGER

XXI

Contract Hardware Hinge Selector (Continued)



HINGES AVAILABLE WITH HOSPITAL TIPS

HTBB-1109
HTBB-1138
HT-1153
HTBB-1163
HTBB-1167
HTBB-1168
HTBB-1173
HT-1174
HTBB-1174
HT-1193

HTBB-1193
HTBB-1199
HT-1239
HTBB-1239
HTBB-1250
HTBB-1264
HTBB-1266
HTBB-1268
HTBB-1270
HT-1500
HTBB-1500

HTBB-1502
HTBB-2098
HTBB-2109
HTBB-2109½
HTBB-2110
HTBB-2112
HTBB-2113
HTBB-2169
HTBB-2169½
HTBB-2171



HINGES AVAILABLE IN ALUMINUM

ALD-BB-1193
ALD-BB-1199

ALD-BB-1500
ALD-BB-1502



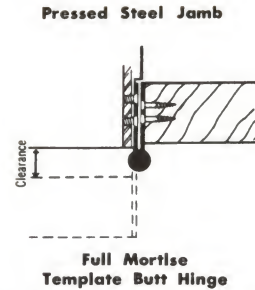
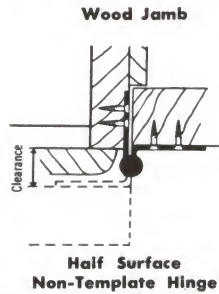
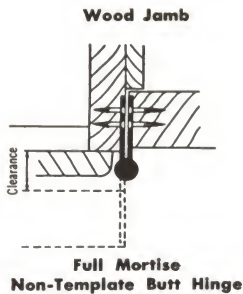
HINGES AVAILABLE IN STAINLESS STEEL

SS-BB-293
SS-BB-1193
SS-1191

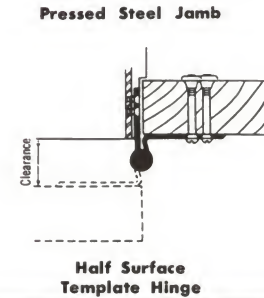
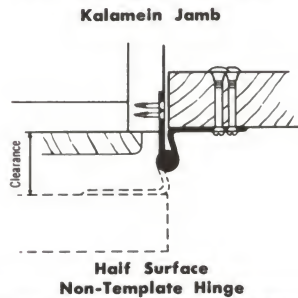
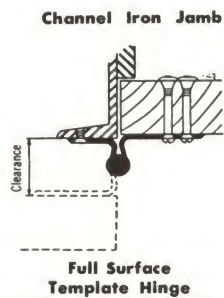
SS-BB-1199
SS-BB-1500
SS-BB-1502

Hinge Applications

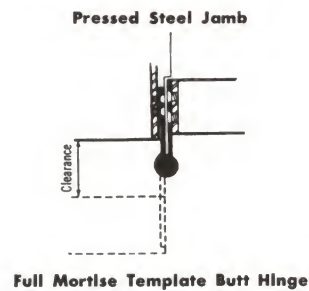
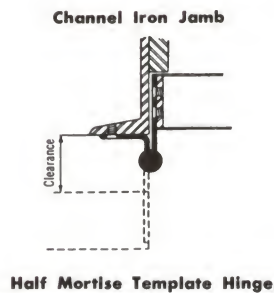
WOOD DOORS



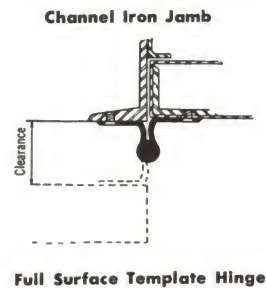
KALAMEIN DOORS



HOLLOW METAL DOORS



ANGLE IRON FRAME DOORS



Ordering Helps

ORDERING AND SPECIFYING HINGES

After selecting the proper hinge as outlined previously, we recommend that you follow this form when ordering hinges. By standardizing on form, confusion can be prevented and we can give you better service.

(1) SIZE

All full mortise hinges must have two dimensions (knuckle length and width open).

Example: $4\frac{1}{2}'' \times 4''$ 1279 x US10.

Half mortise, half surface and full surface hinges have one dimension (knuckle length).

Example: $4\frac{1}{2}''$ BB-1138 x US10.

(2) BEARINGS

Unless otherwise noted, hinges will be furnished with plain bearings. To specify other bearings, use the following abbreviations:

1. Ball Bearings — BB Example: $4\frac{1}{2}'' \times 4''$ **BB-** 1279 x US10

2. Oilite Bearings — OB Example: $4\frac{1}{2}'' \times 4''$ **OB-** 1279 x US10

3. Nylon Bearings— NB Example: $4\frac{1}{2}'' \times 4''$ **NB-** 1500 x US10

(3) TYPE & STYLE OF HINGE

See section on hinge selection. Examples:

$4\frac{1}{2}'' \times 4\frac{1}{2}''$ **1241** x US3

$3'' \times 3''$ **1500** x US26

$4'' \times 4''$ **HT-2239** x US26D (HT = Hospital Type)

$4'' \times 4''$ **HT-BB-1279** x US10 (HT = Hospital Type)

$3\frac{1}{2}'' \times 3\frac{1}{2}''$ **RC-1741** x US10 (RC = Round Corner)

(4) FINISH

U. S. finish symbols are suffixed to the hinge type number. (See Finish Symbol Comparison Page XXVIII)

Examples: $4'' \times 4''$ 1193 x **US10**
296 x **US26D**

(5) TIPS

Ball Tip —BT Example: $3\frac{1}{2}'' \times 3\frac{1}{2}''$ 1241 x US3 x **BT**

Steeple Tip —ST Example: $4'' \times 4''$ BB-1241 x US19 x **ST**

(6) PINS

Brass Pins —BP Example: $4'' \times 4''$ 1241 x US26 x **BP**

Stainless Steel Pins—SSP Example $4\frac{1}{2}'' \times 4\frac{1}{2}''$ BB-1279 x US26D x **SSP**

(7) SECURITY FEATURES

Non-Removable Pin (Set Screw) —NRP

Plug in Both Ends (Floating Pin) —TP

Riveted or Spun Pin —FRP

Safety Stud —SH Example:

$4'' \times 4''$ BB-1193 x US3 x BP x **SH**

Ordering Helps

ORDERING AND SPECIFYING HINGES



(8) TYPE OF SCREWS

Standard template full mortise hinges are regularly packed with one half machine screws and one half wood screws.

Standard non-template full mortise hinges are regularly packed with all wood screws. If screws other than these are required, specify them as follows:

Half Machine Screws	—½MS
All Machine Screws	—AMS
All Wood Screws	—WS
Sheet Metal Screws	—SMS
Phillips Head Wood Screws	—PHWS
Phillips Head Machine Screws	—PHMS

Example: 4" x 4" BB-1193 x US3 x BP x SH x **AMS**

For complete description of screws available, see Page IX.



(9) HAND

Olive knuckle, pivot and anchor hinges are handed.

The hand must be specified on the order.

Example: 296 x US26D x AMS x **RH**



(10) MISCELLANEOUS

Blank —NH
Flat Back —FS

Examples: 4½" x 4½" BB-1241 x US10 x NHFS

GENERAL INFORMATION

Special Requirements

In the event that you do not find the particular hinge which will meet your requirements in this catalog, we recommend that you contact our factory and provide us with your specifications. The Hager Engineering Staff consists of specialists in the design of hinges and related products.

American Society of Architectural Hardware Consultants

Hager recommends the services of a qualified A.H.C. for the preparation of hardware specifications and schedules. Members of this Society are qualified through years of experience and rigid examination to handle the most complex hardware situations.



EVERYTHING HINGES ON HAGER



U. S. Government Specification Number

As Listed in Federal Spec. FF-H-111b

U.S. Government Number	Item	Hager Number	Catalog Page
1011	Barrel Bolt	WS-1503	139
F1011	Barrel Bolt	WS-1403-J	139
F1011C	Barrel Bolt	WS-1403-CP	139
F1023A	Chain Bolt	1400-J	140
F1023AC	Chain Bolt	1400-CP	140
F1023-B	Foot Bolt	1401-J	140
F1023-BC	Foot Bolt	1401-CP	140
F1051	Cane Bolt	1408-J	141
F1068	Shelf Brackets	WS-1796-J	142
F1072	Friction Catches	1432-CP	90
F1085	Cupboard Turn	1430	88
F1142	Sash Lock	1487	120
F1171	Closet Rod	1795	144
F1188	Thumb Latch	1930-J (No. 3)	146
F1204A	Bar Sash Lift	1489	119
1306	Drawer Pull	1077, 1078, 1079	87
F1401	Hinge Hasp	WS-1912-G-BP	133
F1401C	Hinge Hasp	WS-1912-CP	133
F1401E	Hinge Hasp	WS-1912-PS	133
F1403	Hinge Hasp	1941-G-BP (7½")	133
F1403C	Hinge Hasp	1941-CP (7½")	133
F1403E	Hinge Hasp	WS-1941-PS (7½")	133
F1405	Safety Hasp	WS-1911-G-BP	133
F1405C	Safety Hasp	WS-1911-CP	132
F1405E	Safety Hasp	WS-1911-PS	132
F1430	Padlock Eyes	1931-G (No. 2)	141
F1430C	Padlock Eyes	1931-CP (No. 2)	141
F1430D	Padlock Eyes	1931-J (No. 2)	141
F1821	Blind Holdback	2685½-PT	122
F1821A	Blind Holdback	2685-PT	122
F1824	Screen Hanger	20-CP	117

As Listed in Federal Spec. FF-H-116C

U.S. Government Number	Item	Hager Number	Catalog Page	U.S. Government Number	Item	Hager Number	Catalog Page
2102	Butt Hinge	BB-1500	12	T2146	Butt Hinge	BB-2098	54
T2102	Butt Hinge	BB-1193	26	TH2146	Butt Hinge	HTBB-2098	55
TH2102	Butt Hinge	HTBB-1193	27	T2147	Butt Hinge	BB-1138	54
2105	Butt Hinge	BB-1239	12	TH2147	Butt Hinge	HTBB-1138	55

As Listed in Federal Spec. FF-H-116C (Continued)

T2105	Butt Hinge	BB-1174	26	T2149	Butt Hinge	BB-1138-PT	54
TH2105	Butt Hinge	HTBB-1174	27	TH2149	Butt Hinge	HTBB-1138-PT	55
2106	Butt Hinge	BB-1184	10	T2152	Butt Hinge	BB-2110	58
T2106	Butt Hinge	BB-1191	24	TH2152	Butt Hinge	HTBB-2110	59
2107	Butt Hinge	BB-1241	10	T2153	Butt Hinge	BB-2171	58
T2107	Butt Hinge	BB-1279	24	TH2153	Butt Hinge	HTBB-2171	59
TH2107	Butt Hinge	HTBB-1174	27	T2155	Butt Hinge	BB-2171-PT	58
2112	Butt Hinge	BB-1502	14	TH2155	Butt Hinge	HTBB-2171-PT	59
T2112	Butt Hinge	BB-1199	28	T2156	Butt Hinge	BB-2109	60
TH2112	Butt Hinge	HTBB-1199	29	TH2156	Butt Hinge	HTBB-2109	61
2115	Butt Hinge	BB-1250	14	T2157	Butt Hinge	BB-2169	60
T2115	Butt Hinge	BB-1168	28	TH2157	Butt Hinge	HTBB-2169	61
TH2115	Butt Hinge	HTBB-1168	29	T2159	Butt Hinge	BB-2169-PT	60
2117	Butt Hinge	BB-1250-PT	14	TH2159	Butt Hinge	HTBB-2169-PT	61
T2117	Butt Hinge	BB-1168-PT	28	T2160	Butt Hinge	BB-1264	56
TH2117	Butt Hinge	HTBB-1168-PT	29	T2161	Butt Hinge	BB-1264-PT	56
T2119	Butt Hinge	1153	34	T2163	Butt Hinge	BB-1266	64
TH2119	Butt Hinge	HT-1153	35	T2164	Butt Hinge	BB-1266-PT	64
T2121	Butt Hinge	1153-PT	34	2170	Butt Hinge	1508½	7
TH2121	Butt Hinge	HT-1153-PT	35	T2170	Butt Hinge	1548½	22
2122	Butt Hinge	1500	8	2171	Butt Hinge	1291	7
T2122	Butt Hinge	1193	20	T2171	Butt Hinge	1178	22
2125	Butt Hinge	1239	8	2171H	Butt Hinge	WS-1808-G-BP	67
T2125	Butt Hinge	1174	20	2172	Butt Hinge	1850	68
2126	Butt Hinge	1184	1	2172E	Butt Hinge	1850-LP	68
2127	Butt Hinge	1241	1	2172G	Butt Hinge	1850-G-BP	68
T2127	Butt Hinge	1279	18	2173	Butt Hinge	FM-1850-WH	68
2127H	Butt Hinge	1241-G-BP	1	2173E	Butt Hinge	FM-1850-WH-LP	68
2132	Butt Hinge	BB-2116	41	2176	Butt Hinge	1804	67
T2132	Butt Hinge	BB-2112	43	2176G	Butt Hinge	1804-CP-BP	67
TH2132	Butt Hinge	HTBB-2112	44	2178	Garage Hinge	BB-1991-CP-J	48
2133	Butt Hinge	BB-1150	41	2180	Garage Hinge	BB-1967-CP-J	48
T2133	Butt Hinge	BB-1173	43	2201	Strap Hinge	WS-1900-CP-BP	125
TH2133	Butt Hinge	HTBB-1173	44	2203	Strap Hinge	WS-1902-G-BP	125
2135	Butt Hinge	BB-1150	41	2207	"T" Hinge	WS-1904-CP-BP	126
T2135	Butt Hinge	BB-1173	43	2208	"T" Hinge	WS-1906-CP-BP	126
TH2135	Butt Hinge	HTBB-1173-PT	44	2209	"T" Hinge	WS-1908-G-BP	127
T2136	Butt Hinge	BB-2113	45	2212	"T" Hinge	WS-1963-G-BP	127
TH2136	Butt Hinge	HTBB-2113	46	2262	Butt Hinge	1589	78
T2137	Butt Hinge	BB-1163	45	2263	Butt Hinge	1289	78
TH2137	Butt Hinge	HTBB-1163	46	2263P	Butt Hinge	1289-PT	78
T2139	Butt Hinge	BB-1163-PT	45	2266	Butt Hinge	1595	79
TH2139	Butt Hinge	HTBB-1163-PT	46	2267	Butt Hinge	1295	79
T2142	Butt Hinge	BB-1108	52	2267P	Butt Hinge	1295-PT	79
TH2142	Butt Hinge	HTBB-1108	53	2269	Butt Hinge	WS-1800-G-BP	72
T2143	Butt Hinge	BB-1167	52	2276	Butt Hinge	1522½-CHR-1½"	80
TH2143	Butt Hinge	HTBB-1167	53	2277	Butt Hinge	1522½-CHR-2½"	80
T2145	Butt Hinge	BB-1167-PT	52	2278	Butt Hinge	1822½-PT-1½"	80
TH2145	Butt Hinge	HTBB-1167-PT	53	2279	Butt Hinge	1822½-PT-2½"	80
				2282	Chest Hinge	2"x¾" 1820	77

Comparative Finish Chart

Hager and U. S.	Obsolete Hager	Description	Obsolete P & F Corbin	Lockwood	Obsolete Russell & Erwin	Sargent & Company	Schlage Lock Company	Yale & Towne Manufacturing Company
USP	PT	Primed for Painting	PC	P	PC	PC		PC
US1B	J	Bright Japanned	J	1B		BJ		J
US1D	JD	Dull Black Japanned	D	1D			19	
US2C	CP	Cadmium Plated						
	CPD	Cadmium Dull, Brushed						
US2G		Zinc Coated-Galvanized						
US2H	G	Galvanized-Hot Dipped						
US3	B	Bright Brass	A	3	10	B	3	AZ10
US4	DB	Dull Brass	EA	4	9	OB	4	AY22
US5	DBO	Dull Brass, Oxidized						
US9	A	Bright Bronze					9	BZ10
US10	DA	Dull Bronze	DB	10	11D	OP	10	BY22
US10B	DAOR	Antique Bronze, Oiled	EB	10B	136NLOR	O3P	10B	BY23
US11	DAO	Dull Bronze, Oxidized					11	
US14	N	Bright Nickel	E	14	4	N	14	NZ10
US15	DN	Dull Nickel	DE	15	14	LN	15	NY10
US19	K	Dead Black		19			19	BX80
US20	AW	Statuary Bronze, Light						
US24	GD	Brass Material, Gold Plated						
US25	WB	White Bronze, Bright						
US25D	WBD	White Bronze, Dull						
US26	CHR	Chromium Plated, Bright	CR	26	24	CM	26	DZ10
US26D	CHRD	Chromium Plated, Dull	DCR	26D	34	DCM	26D	DY10
US27	ALB	Aluminum, Lacquered						LY22
US28	ALD	Aluminum, Anodized	DL	28	64	AN	28	LY43
US32	SS	Stainless Steel, Polished		32		K	32	SS10
US32D	SSD	Stainless Steel, Satin		32D		OK	32D	SS22
	OC	Antique Copper						
	GY	Grey Enamel						
	LS	"Luma Sheen"						
	PT2	Primed for Paint—Tan						
	M	"Manhattan"—Black and Brass						
	LG	Simulated Gold Lacquer						

The finishes shown above are regularly furnished by Hager. Finishes other than those shown above are available on application.

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE



STEEL

1241

STEEL PIN

GOV'T #2127

BRASS

1184

STAINLESS PIN

GOV'T #2126

STAINLESS STEEL

SS 1184

STAINLESS PIN

FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1241 PT.

Brass hinges 2½" and smaller have brass pins.

Shelf Stock • sizes 2 x 2 and 2½ x 2½ are packed five pair in a box with screws; Larger sizes are packed one pair in a box with screws.

Contract Stock • packed 1½ pair in a box with wood screws.

Size Open (Inches)	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4	6 x 6
						4½ x 4½	5 x 4½ 5 x 5	
Gauge of metal	.082	.089	.092	.123	.130	.134	.146	.160
Number of holes	4	6	6	6	8	8	8	10
Screw size	¾ x 7	¾ x 8	1 x 8	1 x 9	1 x 10	1¼ x 12	1¼ x 12	1½ x 14
Pair in a carton shelf stock	100	100	50	50	25	20	20	12
Weight per carton, lbs. shelf stock	33	48	34	60	39	41	50	57
Pair in a carton contract stock			48	48	24	24	24	12
Weight per box, lbs. contract stock steel	—	—	1	1¾	2½	3½	4¼	6¾
Weight per box, lbs. contract stock stainless steel	—	—	1	1¾	2½	3½	4¼	6¾
Weight per box, lbs. contract stock brass	2¼	2¾	1	2	2¾	4	4¾	7½

Hager

EVERYTHING HINGES ON HAGER

1

Full Mortise Hinges

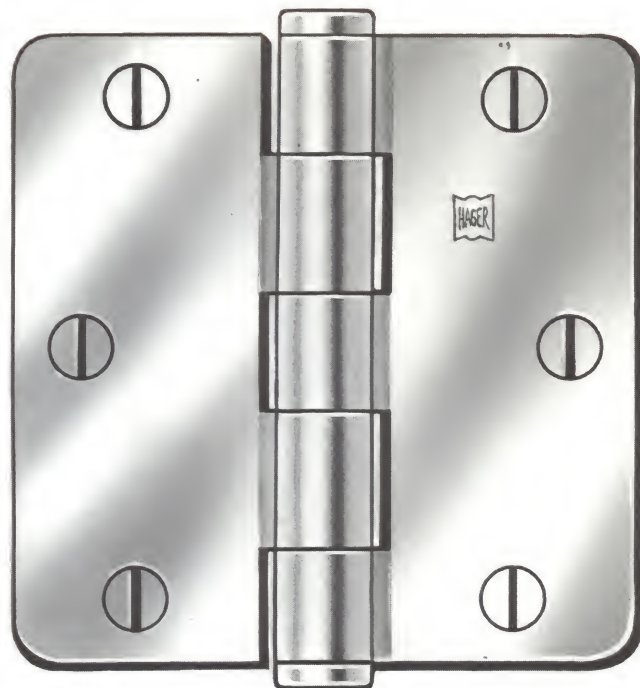
PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE • ROUND CORNERS

RC 1241

STEEL
STEEL PIN

RC 1184

BRASS
BRASS PIN



FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PINS
WITH SCREWS

Brass Hinges 2½" have brass pins

Steel Bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. RC1241PT

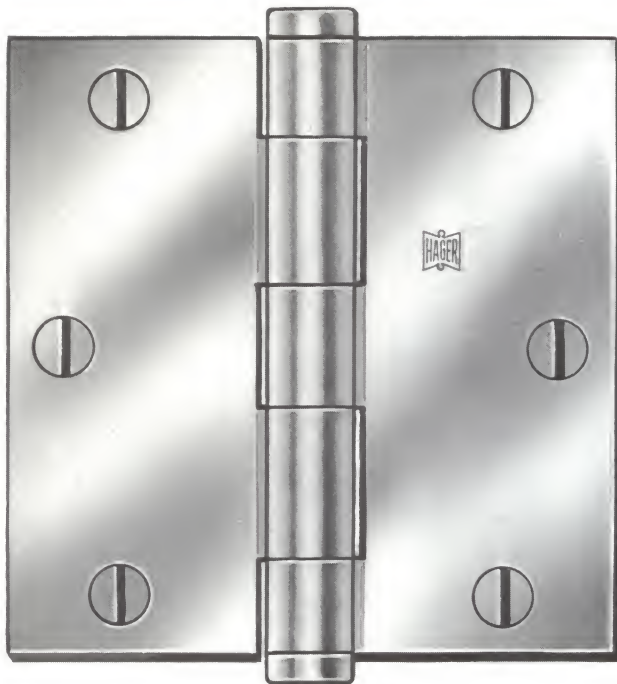
Shelf Stock • Sizes 2½x2½" are packed five pair in a box with screws, larger sizes, one pair in a box.

Contract Stock Packed 1½ pair in a box with screws.

Size open (inches)	2½x2½	3x3	3½x3½	4x4	4½x4½
Gauge of metal	.089	.092	.125	.130	.134
Number of holes	4	6	6	8	8
Screw size	¾x8	1x8	1x9	1x10	1¼x12
Pairs in a carton, Shelf stock	100	50	50	25	20
Weight per carton, lbs., Shelf stock	47	33	60	38	40
Pairs in a carton, Contract stock	—	48	48	24	24
Weight per box, lbs., Contract stock	—	1	1¾	2½	3½

Full Mortise Hinges

PLAIN BEARING • MEDIUM WEIGHT • NON TEMPLATE



STEEL
STEEL PIN

1741

STANDARD SIZE KNUCKLES
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel Bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1741 PT

All Sizes packed one pair only per box with slotted head screws.

Size open (inches)	3x3	3½x3½	4x4
Gauge of metal	.092	.104	.104
Number of holes	6	6	8
Screw size	1x8	1x9	1x9
Pairs in a carton	50	50	25
Weight per carton, lbs.	34	52	32



Full Mortise Hinges

PLAIN BEARING • MEDIUM WEIGHT • NON TEMPLATE • ROUND CORNERS

RC 1741

1/4" RADIUS

STEEL

STEEL PIN

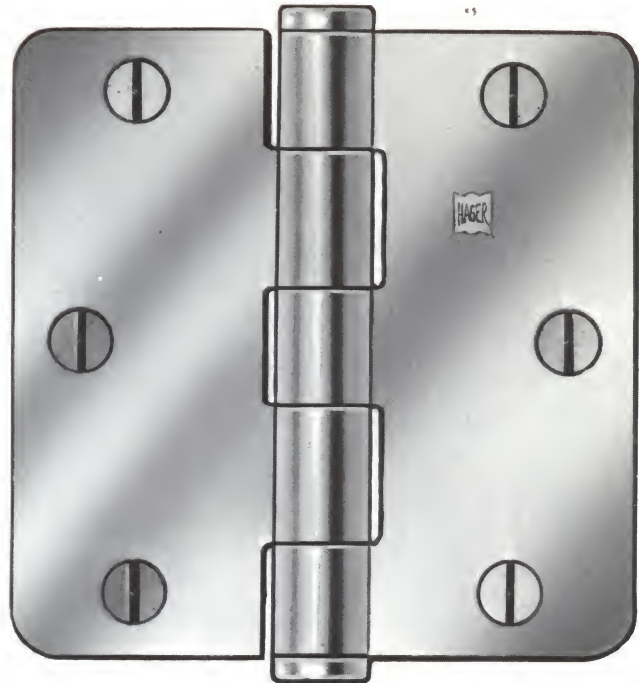
RC 1841

5/8" RADIUS

STEEL

STEEL PIN

ROUND CORNERS
FULL SIZE KNUCKLES
FIVE KNUCKLES
BUTTON TIPS
REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. RC 1741 PT.

RC 1841 available in 3½ x 3½ and 4 x 4 sizes only.

Available packed one pair in a box or bulk packed (assembled)

Specify if bulk packaging desired.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4
Gauge of metal	.092	.104	.104
Number of holes	6	6	8
Screw size	1 x 8	1 x 9	1 x 9
Pair in a carton, boxed	50	50	25
Weight per carton, lbs., boxed	34	52	32
Pair in a carton, bulk	50	50	50
Weight per carton, lbs. bulk	33	50	64

Full Mortise Hinges

PLAIN BEARING • MEDIUM WEIGHT • NON TEMPLATE • ROUND CORNERS



STEEL
STEEL PIN **7771**
1/4" RADIUS

STEEL
STEEL PIN **7741**
1/4" RADIUS

STEEL
STEEL PIN **8741**
3/8" RADIUS

BULK PACKED UNASSEMBLED
FULL SIZE KNUCKLES
FIVE KNUCKLES
BUTTON TIPS
REMOVABLE PIN
WITH SCREWS

Type and length wood screw must be specified
Head type available: Length available:
a) regular slotted a) 3/4" length
b) phillips b) 1" length
c) cross recessed

Packing • 100 pair (200 only) two prong leaves in one carton
100 pair (200 only) three prong leaves in one carton
pins (200 only) for 100 pair in one carton
necessary screws for 100 pair in one carton

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4
Gauge of metal #7771	.092	.123	.130
#7741	.092	.104	.104
#8741	—	.104	.104
Number of holes	6	6	8
Screw head size	8	9	9
Weight per set of cartons, lbs. #7771	66	120	157
Weight per set of cartons, lbs. #7741—#8741	66	110	135



EVERYTHING HINGES ON HAGER

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE • WIDE THROW

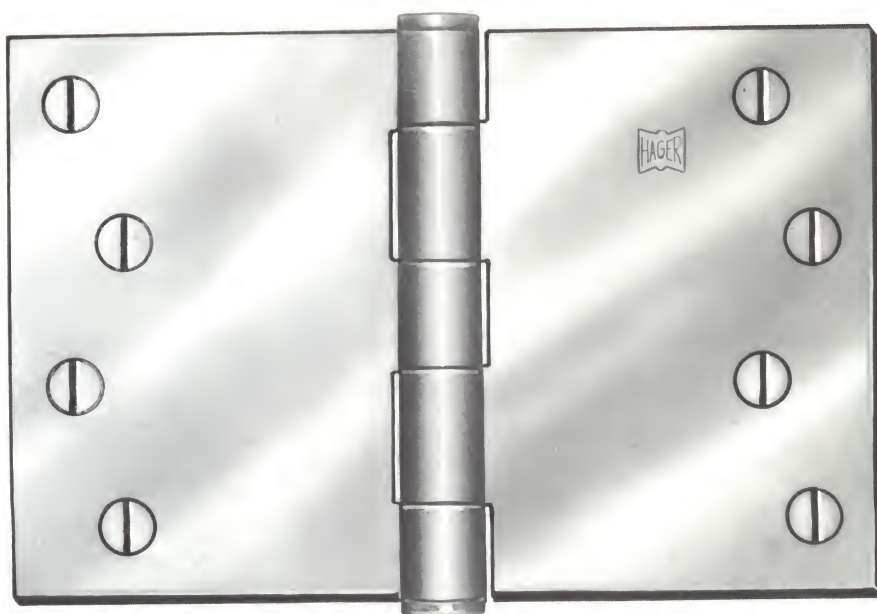
WT 1241

STEEL
STEEL PIN

WT 1184

BRASS
STAINLESS PIN

WIDE THROW
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. WT 1241 PT.

Contract Stock • all sizes packed 1½ pair in a box with wood screws.

Size Open (Inches)	3½ x 5	3½ x 6	4 x 5	4 x 6	4 x 7	4½ x 5	4½ x 6	4½ x 7	4½ x 8	5 x 6	5 x 7	5 x 8
Gauge of metal	.123	.123	.130	.130	.130	.134	.134	.134	.134	.146	.146	.146
Number of holes	6	6	8	8	8	8	8	8	8	8	8	8
Screw size	1 x 9	1 x 9	1 x 10	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12
Pair in a carton	24	24	24	24	24	12	12	12	12	12	12	12
Weight per box steel, lbs.	2½	3	3	3½	3¾	3¾	4	4¾	5¼	5	5¾	6¾
Weight per box brass, lbs.	3	3¼	3¼	3¾	4¼	4¼	4½	5½	5¾	5½	6¼	7½

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE



STEEL

1291

STEEL PIN

GOV'T #2171

BRASS

1591

BRASS PIN

BRASS OR BRONZE

1508½

STAINLESS PIN

GOV'T #2170

FIVE KNUCKLES
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1291 PT.

No. 1508½ has the inner edges of its leaves beveled to insure close fitting joints and is highly polished.

Shelf Stock • sizes 2 x 2 and 2½ x 2½ are packed five pair in a box with screws. Larger sizes are packed one pair in a box with wood screws.

Contract Stock • all sizes packed 1½ pair in a box with wood screws.

Size Open (Inches)	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4
Gauge of metal	.082	.089	.092	.123	.130
Number of holes	4	6	6	6	8
Screw size	¾ x 7	¾ x 8	1 x 8	1 x 9	1 x 10
Pair in a carton shelf stock	100	100	50	50	25
Weight per carton, lbs. shelf stock	33	48	34	60	39
Pair in a carton contract stock	—	—	48	48	24
Weight per box, lbs. contract stock	—	—	1	1¾	2½

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE

1239

GOV'T #2125

STEEL

STEEL PIN

1500

GOV'T #2122

BRASS OR BRONZE

STAINLESS PIN

INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON-RISING REMOVABLE PIN
WITH SCREWS

Knuckles (cut
open) showing
steel bushing in
no. 1500



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1239 PT.

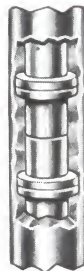
Brass or bronze hinges are equipped with stainless steel bushings except size 3 x 3.

All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4
				4½ x 4½	5 x 4½ 5 x 5
Gauge of metal	.092	.123	.130	.134	.146
Number of holes	6	6	8	8	8
Screw size	1 x 8	1 x 9	1 x 10	1¼ x 12	1¼ x 12
Pair in a carton	48	48	24	24	24
Weight per box steel, lbs.	1	1¾	2½	3¾	4¼
Weight per box brass, lbs.	1¼	2	2¾	4	4½

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • NON TEMPLATE • HOSPITAL TYPE



Knuckles (cut open) showing steel bushing in HT 1500

STEEL
STEEL PIN

HT 1239

BRASS OR BRONZE
STAINLESS PIN

HT 1500

INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT 1239 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	3½ x 3½	4 x 4	4½ x 4 4½ x 4½	5 x 4 5 x 4½ 5 x 5
Gauge of metal	.123	.130	.134	.146
Number of holes	6	8	8	8
Screw size	1 x 9	1 x 10	1¼ x 12	1¼ x 12
Pair in a carton	48	24	24	24
Weight per box steel, lbs.	1¾	2½	3¾	4¼
Weight per box brass, lbs.	2	2¾	4	4½



Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • NON TEMPLATE

BB 1241

GOV'T #2107

STEEL

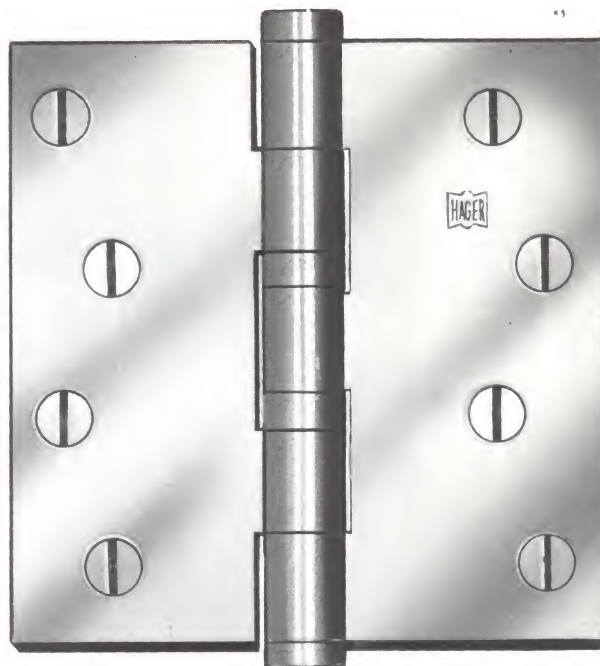
STEEL PIN

BB 1184

GOV'T #2106

BRASS OR BRONZE

STAINLESS PIN



TWO BALL BEARINGS
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as-a suffix, i.e. BB 1241 PT.

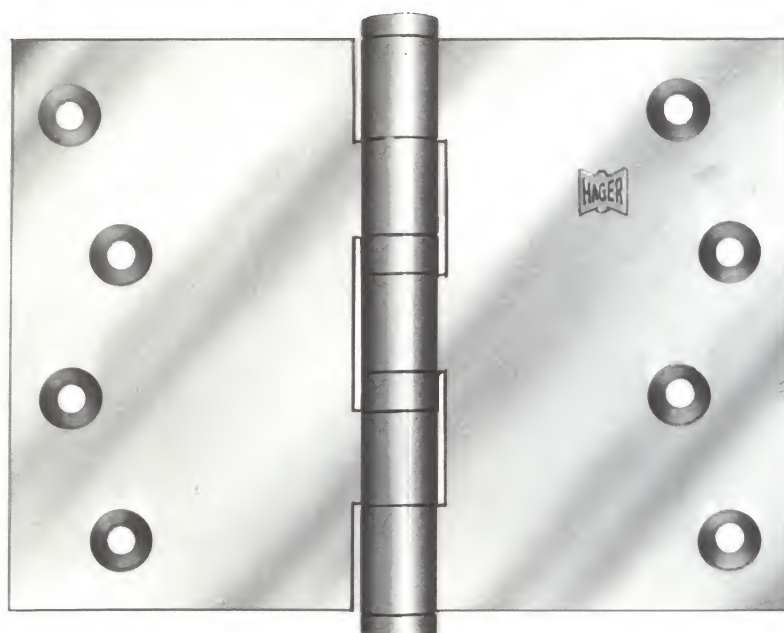
Furnished with round corners upon request • specify RC-BB 1241.

All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4	6 x 6
					5 x 4½	
				4½ x 4½	5 x 5	
Gauge of metal	.092	.123	.130	.134	.146	.160
Number of holes	6	6	8	8	8	10
Screw size	1 x 8	1 x 9	1 x 10	1¼ x 12	1¼ x 12	1½ x 14
Pair in a carton	48	48	24	24	24	12
Weight per box steel, lbs.	1	1¾	2½	3¾	4¼	7
Weight per box brass, lbs.	1¼	2	2¾	4	4½	7½

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • NON TEMPLATE • WIDE THROW



STEEL
STEEL PIN

WTBB 1241

BRASS
STAINLESS PIN

WTBB 1184

WIDE THROW
TWO BALL BEARINGS
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 2243 PT.
All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	3½ x 5	3½ x 6	4 x 5	4 x 6	4 x 7	4½ x 5	4½ x 6	4½ x 7	4½ x 8	5 x 6	5 x 7	5 x 8
Gauge of metal	.123	.123	.130	.130	.130	.134	.134	.134	.134	.146	.146	.146
Number of holes	6	6	8	8	8	8	8	8	8	8	8	8
Screw size	1 x 9	1 x 9	1 x 10	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12
Pair in a carton	24	24	24	24	24	12	12	12	12	12	12	12
Weight per box steel, lbs.	2½	3	3	3½	3¾	3¾	4	4¾	5¼	5	5¾	6¾
Weight per box brass, lbs.	3	3¼	3¼	3¾	4¼	4¼	4½	5½	5¾	5½	6¼	7½

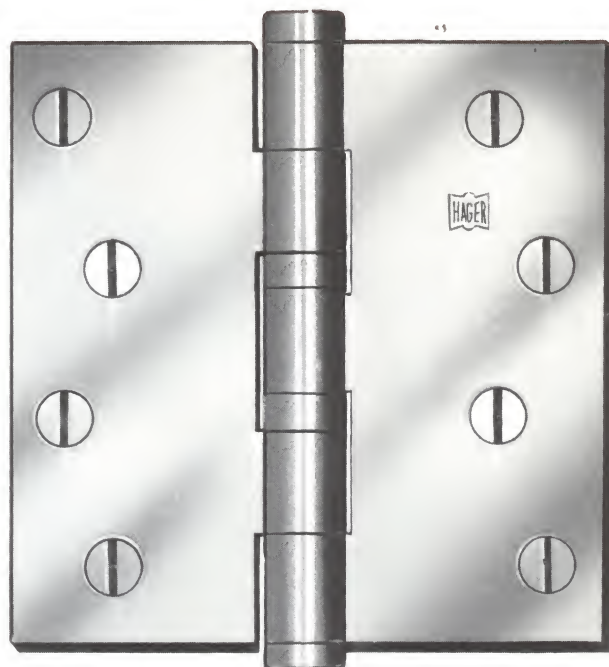


Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • NON TEMPLATE

BB 1239 GOV'T #2105	STEEL STEEL PIN
BB 1500 GOV'T #2102	BRASS OR BRONZE STAINLESS PIN
ALDBB 1500	ALUMINUM STAINLESS PIN
SSBB 1500	STAINLESS STEEL STAINLESS PIN

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1239 PT.
All sizes are packed 1½ pair in a box with wood screws.
Aluminum hinges are packed with stainless steel screws.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	5 x 4		
				4½ x 4	5 x 4½	6 x 6
				4½ x 4½	5 x 5	
Gauge of metal	.092	.123	.130	.134	.146	.160
Number of holes	6	6	8	8	8	10
Screw size	1 x 8	1 x 9	1 x 10	1¼ x 12	1¼ x 12	1½ x 14
Pair in a carton	48	48	24	24	24	12
Weight per box steel, lbs.	1	1¾	2½	3½	4¼	7
Weight per box brass, lbs.	1¼	2	2¾	3¾	4½	7¼
Weight per box aluminum, lbs.	—	—	1	1¼	1½	—
Weight per box stainless steel, lbs.	—	1¾	2½	3½	4½	—

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • NON TEMPLATE • HOSPITAL TYPE



STEEL
STEEL PIN

HTBB 1239

BRASS OR BRONZE
STAINLESS PIN

HTBB 1500

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
BARREL ENDS ROUNDED
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 1239 PT.

Barrel ends rounded making it impossible to attachropes, wearing apparel, etc.

All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	3½ x 3½	4 x 4	4½ x 4	5 x 4
			4½ x 4½	5 x 4½
Gauge of metal	.123	.130	.134	.146
Number of holes	6	8	8	8
Screw size	1 x 9	1 x 10	1¼ x 12	1¼ x 12
Pair in a carton	48	24	24	24
Weight per box steel, lbs.	1¾	2½	3¾	4¼
Weight per box brass, lbs.	2	2¾	4	4½



Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • NON TEMPLATE

BB 1250

GOV'T #2115

STEEL

STEEL PIN

BB 1502

GOV'T #2112

BRASS OR BRONZE

STAINLESS PIN

ALDBB 1502

ALUMINUM

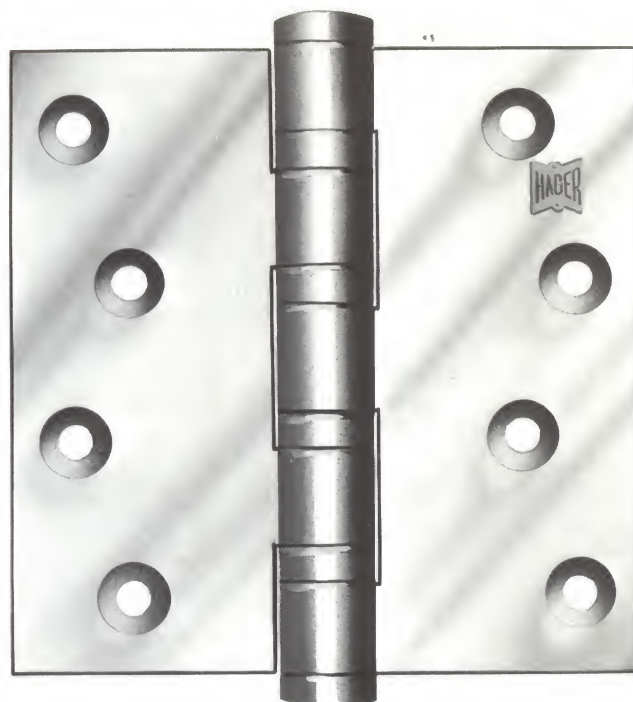
STAINLESS PIN

SS 1502

STAINLESS STEEL

STAINLESS PIN

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1250 PT.

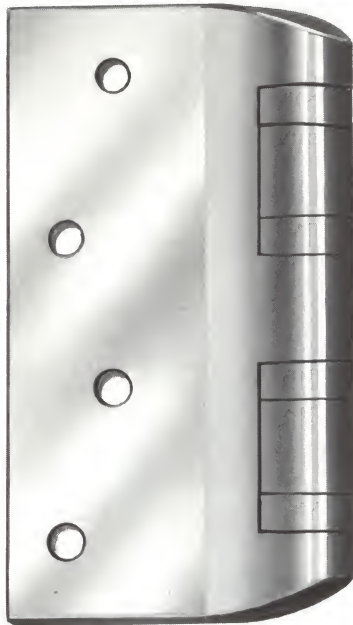
All sizes are packed 1½ pair in a box with wood screws.

Aluminum hinges are packed with stainless steel screws.

Size Open (Inches)	4 x 4	4½ x 4½	5 x 4½	6 x 5	8 x 6
			5 x 5	6 x 6	8 x 8
Gauge of metal	.170	.180	.190	.203	.203
Number of holes	8	8	8	10	16
Screw size	1¼ x 12	1¼ x 12	1½ x 12	1½ x 14	1½ x 14
Pair in a carton	24	24	24	12	12
Weight per box steel, lbs.	3½	4¾	5½	8	13¾
Weight per box brass, lbs.	3¾	5	6	8¾	14¾
Weight per box aluminum, lbs.	—	1¾	2	—	—
Weight per box stainless steel, lbs.	—	4¾	5½	8	—

Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • NON TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 1250

STEEL PIN

BRASS OR BRONZE

HTBB 1502

STAINLESS PIN

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
NON REMOVABLE RIVETED PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 1250 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

All sizes are packed 1½ pair in a box with wood screws.

Size Open (Inches)	4 x 4	4½ x 4½	5 x 4½		6 x 6	8 x 8
			5 x 5			
Gauge of Metal	.170	.180	.190		.203	.203
Number of Holes	8	8	8		10	16
Screw Size	1¼ x 12	1¼ x 12	1½ x 12		1½ x 14	1½ x 14
Pair in a carton	24	24	24		12	12
Weight per box, steel, Lbs.	3½	4¾	5½		8	13¾
Weight per box, brass, Lbs.	3¾	5	6		8¾	14¾



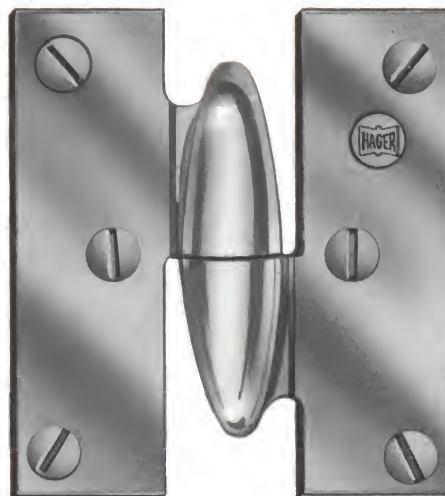
Full Mortise Hinges

NYLON BEARING • REGULAR WEIGHT • NON-TEMPLATE • OLIVE KNUCKLES

1140

STEEL PIN

HANDED—SPECIFY HAND DESIRED
POLISHED
LIFETIME NYLON BUSHING
TWO KNUCKLES
WITH SCREWS

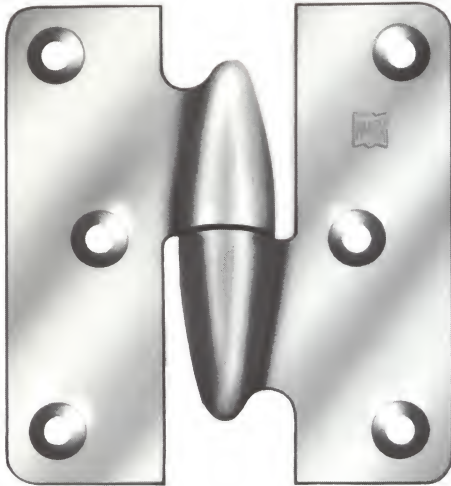


Hager olive knuckle hinges are designed with a lifetime of service in mind.
Available in both right and left hands: Please specify hand desired.
For use on 1" to 1³/₄" interior or exterior doors.
Packed one pair in a box with wood screws.

Size Open (Inches)	Gauge of metal	Screw size	Pair in a carton	Weight per box, lbs.
3 ¹ / ₂ x 3 ¹ / ₂	.160	6-1 x 10	25	1

Full Mortise Hinges

NYLON BEARING • REGULAR WEIGHT • NON-TEMPLATE • ROUND CORNERS • OLIVE KNUCKLE



STEEL PIN

RC1140

HANDED—SPECIFY HAND DESIRED
POLISHED
LIFETIME NYLON BUSHING
TWO KNUCKLES
WITH SCREWS

Hager olive knuckle hinges are designed with a lifetime of service in mind.
Available in both right and left hands: Please specify hand desired.
For use on 1" to 1 $\frac{3}{4}$ " interior or exterior doors.
Packed one pair in a box with wood screws.

Size Open (Inches)	Gauge of metal	Screw size	Pair in a carton	Weight per box, lbs.
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	.160	6-1 x 10	25	1



Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

1279

GOV'T #T2127

STEEL

STEEL PIN

1191

BRASS OR BRONZE

STAINLESS PIN

SS 1191

STAINLESS STEEL

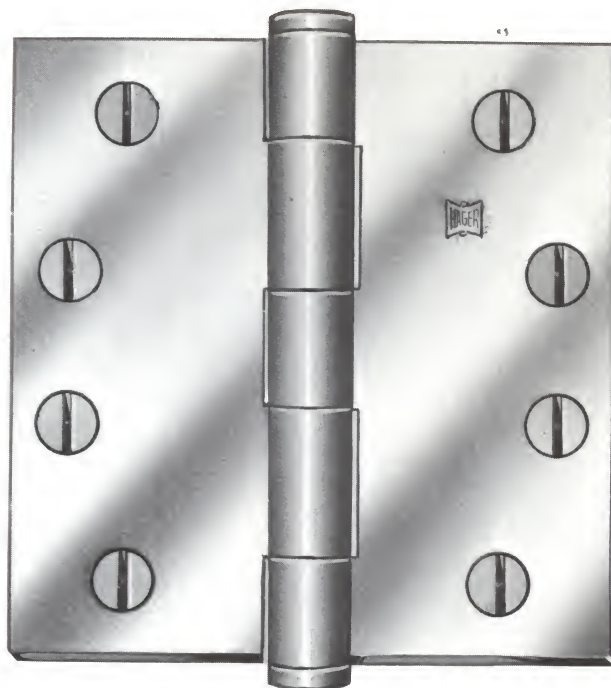
STAINLESS PIN

S.D.I. 1279

STEEL

STEEL PIN

POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



S.D.I. 1279 has special hole location to conform to special punching approval by Steel Door Institute.

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1279 PT.

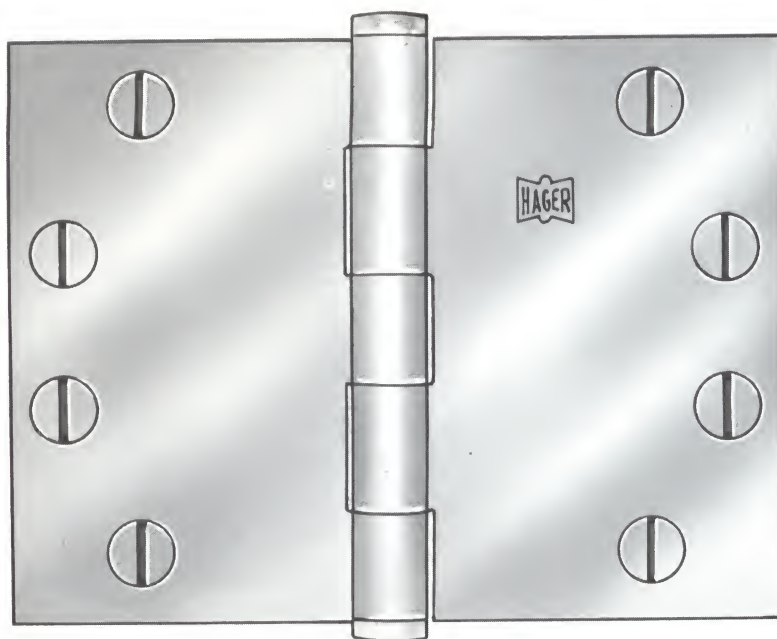
Sizes 2 x 2 and 2½ x 2½ are packed five pair in a box with screws. Larger sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal frames please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4	6 x 5
							5 x 4½ 5 x 5	
Gauge of Metal	.082	.089	.092	.123	.130	.134	.146	.160
Number of Holes	4	6	6	6	8	8	8	10
Wood Screw Size	¾ x 7	¾ x 8	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1½ x 14
Machine Screw Size	½ x 8-32	½ x 8-32	½ x 10-24	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a Carton	100	100	48	48	24	24	24	12
Weight per box, Steel, Lbs.	1½	2	1	1¾	2½	3½	4¼	7
Weight per box, Brass, Lbs.	1½	2	1¼	2	2¾	3¾	4½	—
Weight per Box, Stainless Steel, Lbs.	—	—	1	1¾	2½	3½	4¼	—

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE • WIDE THROW



STEEL

WT 1279

STEEL PIN

BRASS

WT 1191

STAINLESS PIN

WIDE THROW
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. WT 1279 PT.

All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3½ x 5	4 x 5	4 x 7	4½ x 5	4½ x 7	4½ x 8	5 x 6	5 x 7
	3½ x 6	4 x 6		4½ x 6				5 x 8
Gauge of Metal	.123	.130	.130	.134	.134	.134	.146	.146
Number of Holes	6	8	8	8	8	8	8	8
Wood Screw Size	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12
Machine Screw Size	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a carton	24	24	24	12	12	12	12	12
Weight per box, Steel, Lbs.	3	3½	3¾	4	4¾	5¼	5	5¾
Weight per box, Brass, Lbs.	3¼	3¾	4¼	4½	5½	5¾	5½	6¼



Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

1174

GOVT. # T2125

STEEL

STEEL PIN

1193

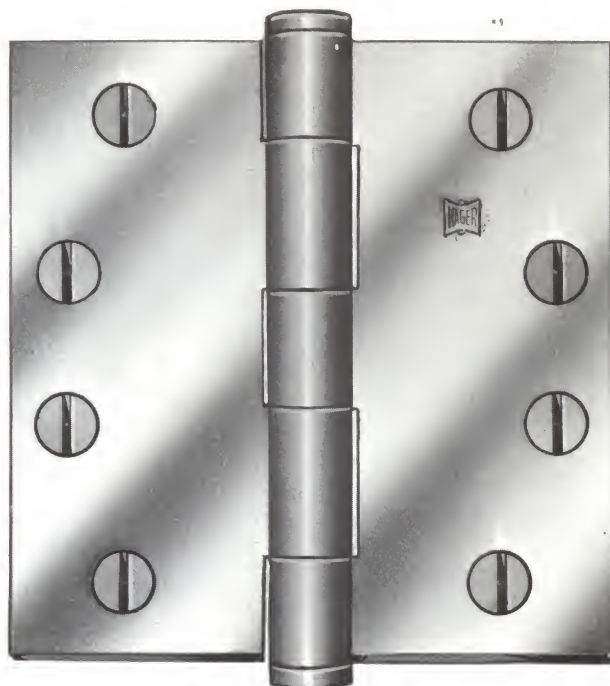
GOVT. # T2122

BRASS OR BRONZE

STAINLESS PIN

INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Knuckles (cut
open) showing
steel bushings
in no. 1193



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1174 PT.

Brass or Bronze hinges are equipped with stainless steel bushings except size 3 x 3.

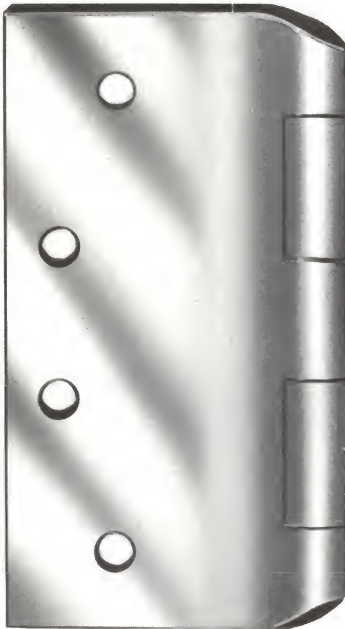
All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	2½ x 2½	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4
					4½ x 4½	5 x 4½
Gauge of Metal	.089	.092	.123	.130	.134	.146
Number of Holes	6	6	6	8	8	8
Wood Screw Size	¾ x 8	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12
Machine Screw Size	½ x 8-32	½ x 10-24	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	100	48	48	24	24	24
Weight per box, Steel, Lbs.	1½	1	1¾	2½	3½	4¼
Weight per box, Brass, Lbs.	1½	1¼	2	2¾	3¾	4½

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE • HOSPITAL TYPE



Knuckles (cut open) showing steel bushings in no. HT 1193

STEEL

HT 1174

STEEL PIN

BRASS OR BRONZE

HT 1193

STAINLESS PIN

INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
RIVETED NON-REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT 1174 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

Brass or Bronze hinges are equipped with stainless steel bushings.

All sizes are packed 1½ pair in a box with screws.

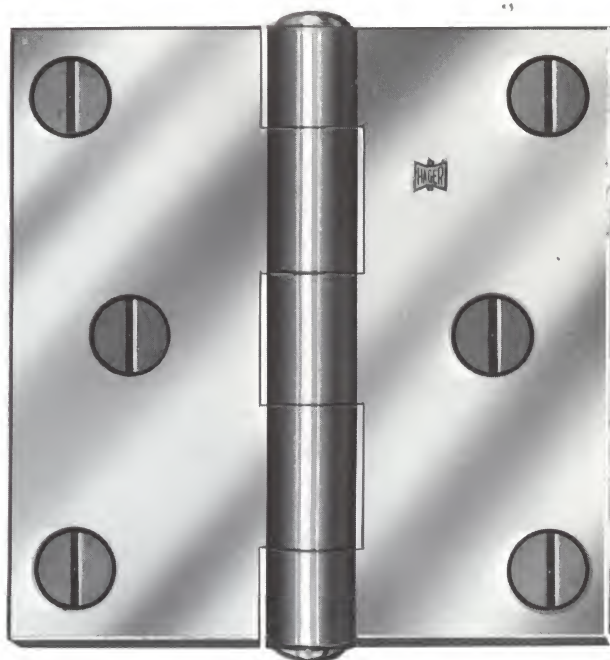
Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4
				4½ x 4½	5 x 4½
				5 x 5	
Gauge of Metal	.092	.123	.130	.134	.146
Number of Holes	6	6	8	8	8
Wood Screw Size	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12
Machine Screw Size	½ x 10-24	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	48	48	24	24	24
Weight per Box, Steel, Lbs.	1	1¾	2½	3½	4¼
Weight per Box, Brass, Lbs.	1¼	2	2¾	3¾	4½

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

1178 GOV'T #T2171	STEEL STEEL PIN
1548½ GOV'T #T2170	BRASS OR BRONZE STAINLESS PIN
1578	BRASS BRASS PIN



FIVE KNUCKLES
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class numbers with the finish symbol "PT" as a suffix, i.e. 1178 PT.

The brass hinge no. 1548½ has the inner edges of its leaves beveled to insure close fitting joints and is highly polished.

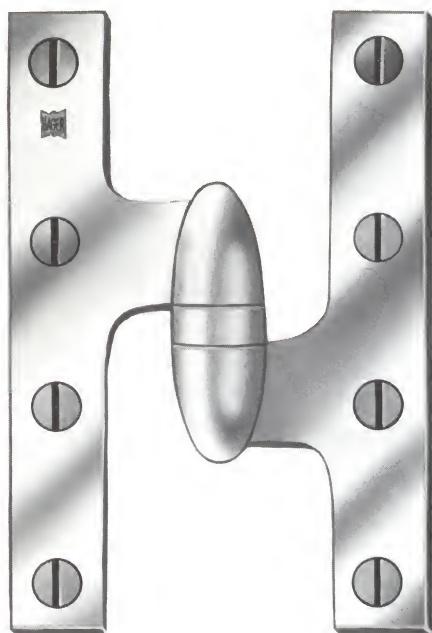
Size 2½ x 2½ is packed five pair in a box with screws. Larger sizes are packed one pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	2½ x 2½	3 x 3	3½ x 3½	4 x 4
Gauge of Metal	.089	.092	.123	.130
Number of Holes	6	6	6	8
Wood Screw Size	¾ x 8	1 x 10	1 x 10	1¼ x 12
Machine Screw Size	½ x 8-32	½ x 10-24	½ x 10-24	½ x 12-24
Pair in a Carton	100	50	50	25
Weight per Box, Steel, Lbs.	2½	¾	1¼	1½
Weight per Box, Brass, Lbs.	2¾	1	1½	1¾

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • OLIVE KNUCKLES



When door is
closed only
knuckle is visible

STEEL

BB 1141

STEEL PIN

BRASS

BB 195

STAINLESS PIN

HANDED—SPECIFY HAND DESIRED
HIGHLY POLISHED
TWO KNUCKLES
ONE BALL BEARING
DROP FORGED
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1141 PT.

These hinges are available in both right and left hands; please specify.

All sizes are packed 1½ pair in a box with wood screws for both leaves and machine screws for one leaf. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	5	6
Gauge of Metal	.169	.203
Number of Holes	8	8
Wood Screw Size	1 x 10	1¼ x 12
Machine Screw Size	½ x 10-24	½ x 12-24
Pair in a Carton	24	12
Weight per box, Steel, Lbs.	2¼	3
Weight per Box, Brass, Lbs.	2¼	3



Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE

BB 1279

GOV'T #T2107

STEEL

STEEL PIN

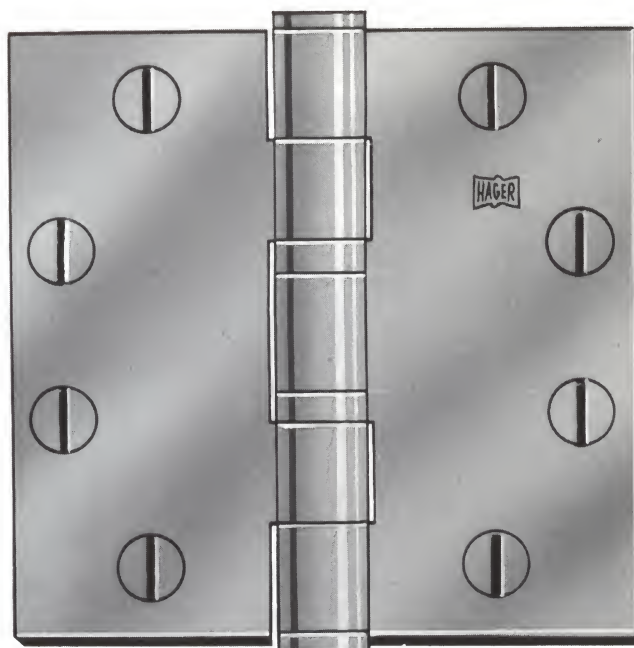
BB 1191

GOV'T #T2106

BRASS OR BRONZE

STAINLESS PIN

TWO BALL BEARINGS
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1279 PT.

All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4	6 x 6
					5 x 4½ 5 x 5	
Gauge of Metal	.092	.123	.130	.134	.146	.160
Number of Holes	6	6	8	8	8	10
Wood Screw Size	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1½ x 14
Machine Screw Size	½ x 10-24	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a Carton	48	48	24	24	24	12
Weight per box Steel, Lbs.	1	1¾	2½	3½	4¼	7
Weight per box, Brass, Lbs.	1¼	2	2¾	3¾	4½	7¾

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • WIDE THROW

STEEL

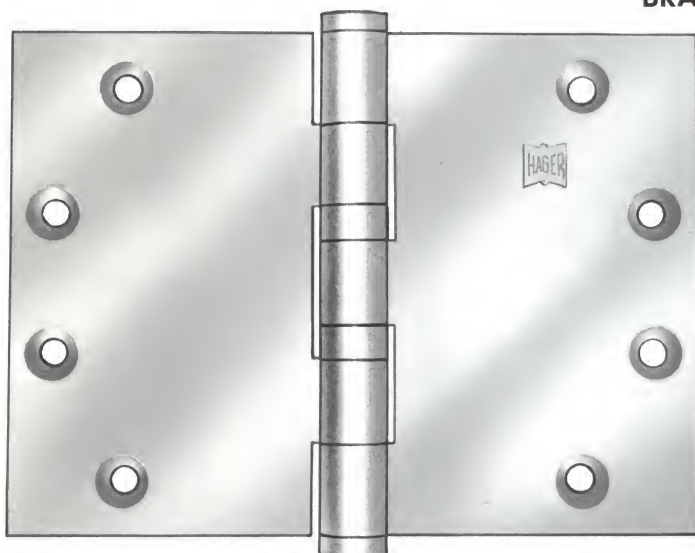
STEEL PIN

WTBB 1279

BRASS OR BRONZE

STAINLESS PIN

WTBB 1191



WIDE THROW
TWO BALL BEARINGS
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1279 PT.

All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3½ x 5	4 x 5	4 x 7	4½ x 5	4½ x 7	4½ x 8	5 x 6	5 x 7
	3½ x 6	4 x 6		4½ x 6				5 x 8
Gauge of Metal	.123	.130	.130	.134	.134	.134	.146	.146
Number of Holes	6	8	8	8	8	8	8	8
Wood Screw Size	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12	1¼ x 12
Machine Screw Size	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	24	24	24	12	12	12	12	12
Weight per box, Steel, Lbs.	3	3½	3¾	4	4¾	5¼	5	5¾
Weight per box, Brass, Lbs.	3¼	3¾	4¼	4½	5½	5¾	5½	6¼



Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

BB 1174

GOV'T #T2105

STEEL

STEEL PIN

BB 1193

GOV'T #T2102

BRASS OR BRONZE

STAINLESS PIN

ALDBB 1193

ALUMINUM

STAINLESS PIN

SSBB 1193

STAINLESS STEEL

STAINLESS PIN



TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1174 PT.

All sizes are packed 1½ pair in a box with screws.

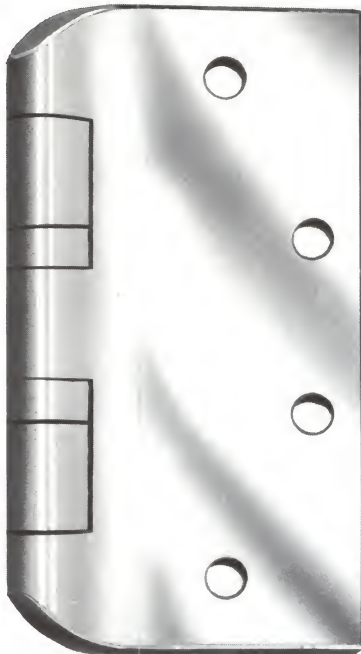
Aluminum hinges are packed with stainless steel screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3 x 3	3½ x 3½	4 x 4	4½ x 4	5 x 4	6 x 6
				4½ x 4½	5 x 4½ 5 x 5	
Gauge of Metal	.092	.123	.130	.134	.146	.160
Number of Holes	6	6	8	8	8	10
Wood Screw Size	1 x 10	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12	1½ x 14
Machine Screw Size	½ x 10-24	½ x 10-24	½ x 10-24	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a Carton	48	48	24	24	24	12
Weight per Box, Steel, Lbs.	1	1¾	2½	3½	4¼	7
Weight per Box, Brass, Lbs.	1¼	2	2¾	3¾	4½	7¼
Weight per Box Aluminum, Lbs.	—	—	1	1¼	1½	—
Weight per Box Stainless Steel, Lbs.	—	1¾	2½	3½	4¼	—

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • HOSPITAL TYPE



STEEL

STEEL PIN

HTBB 1174

GOV'T #TH2105

BRASS OR BRONZE

STAINLESS PIN

HTBB 1193

GOV'T #TH2102

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 1174 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	3½ x 3½	4 x 4	4½ x 4	5 x 4
			4½ x 4½	5 x 4½ 5 x 5
Gauge of Metal	.123	.130	.134	.146
Number of Holes	6	8	8	8
Wood Screw Size	1 x 10	1¼ x 12	1¼ x 12	1¼ x 12
Machine Screw Size	½ x 10-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	48	24	24	24
Weight per Box, Steel, Lbs.	1¾	2½	3½	4¼
Weight per Box, Brass, Lbs.	2	2¾	3¾	4½

Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE

BB 1168

GOV'T #T2115

STEEL

STEEL PIN

BB 1199

GOV'T #T2112

BRASS OR BRONZE

STAINLESS PIN

ALDBB 1199

ALUMINUM

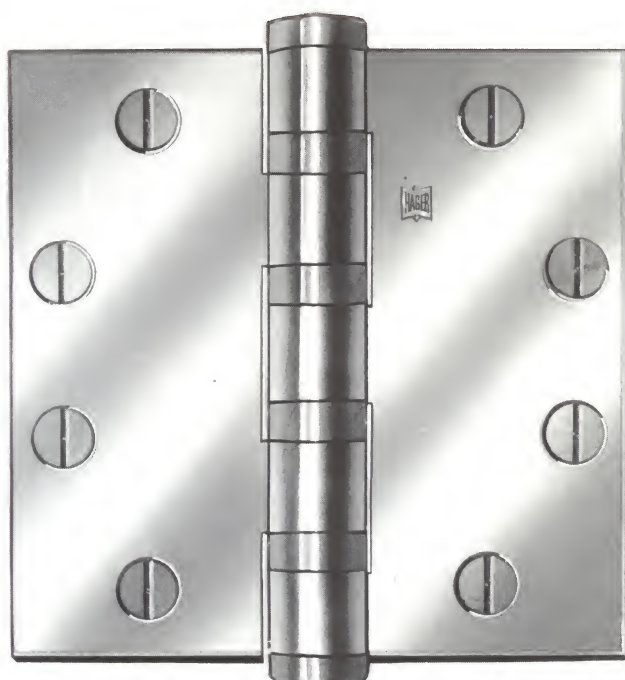
STAINLESS PIN

SSBB 1199

STAINLESS STEEL

STAINLESS PIN

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1168 PT.

All sizes are packed 1½ pair in a box with screws.

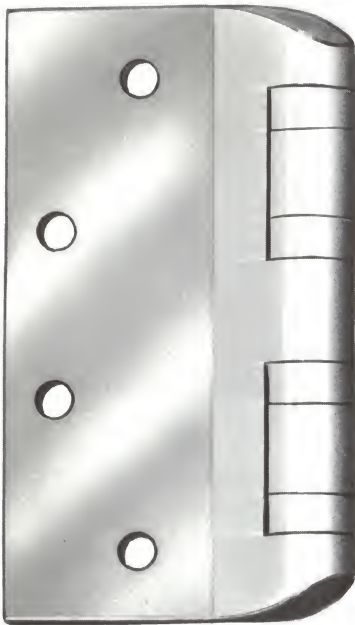
Aluminum hinges are packed with stainless steel screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	4 x 4		5 x 4½		6 x 5	8 x 6
	4 x 4	4½ x 4½	5 x 5	6 x 6	6 x 6	8 x 8
Gauge of Metal	.170	.180	.190	.203	.203	.203
Number of Holes	8	8	8	10	10	16
Wood Screw Size	1¼ x 12	1¼ x 12	1½ x 12	1½ x 14	1½ x 14	1½ x 14
Machine Screw Size	½ x 12-24	½ x 12-24	½ x 12-24	½ x ¼-20	½ x ¼-20	½ x ¼-20
Pair in a Carton	24	24	24	12	12	12
Weight per Box, Steel, Lbs.	3½	4¾	5½	8	8	13¾
Weight per Box, Brass, Lbs.	3¾	5	6	8¾	8¾	14¾
Weight per Box, Aluminum, Lbs.	—	1¾	2	—	—	—
Weight per Box, Stainless Steel, Lbs.	—	4¾	5½	8	8	—

Half Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • HOSPITAL TYPE



STEEL

STEEL PIN

HTBB 1168

GOV'T #TH2115

BRASS OR BRONZE

STAINLESS PIN

HTBB 1199

GOV'T #TH2112

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
RIVETED NON REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 1168 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

All sizes are packed 1½ pair in a box with screws.

Regularly furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	4 x 4	4½ x 4½	5 x 4½	6 x 5
			5 x 5	6 x 6
Gauge of Metal	.170	.180	.190	.203
Number of Holes	8	8	8	10
Wood Screw Size	1¼ x 12	1¼ x 12	1½ x 12	1½ x 14
Machine Screw Size	½ x 12-24	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a Carton	24	24	24	12
Weight per box, Steel, Lbs.	3½	4¾	5½	8
Weight per box, Brass, Lbs.	3¾	5	6	8¾



Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • ANCHOR TYPE

1A-BB 1168

STEEL

STEEL PIN

1A-BB 1199

BRASS

STAINLESS PIN

HANDED—SPECIFY HAND DESIRED
FOUR BALL BEARINGS
ONE ANCHOR LEAF
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1A-BB-1168 PT.

Anchor hinges are sold in sets: a set consists of one anchor (illustrated) and one pair of extra heavy, full mortise template hinges, no. BB 1168 or BB 1199.

Anchor hinges are handed: please specify right or left hand as desired.

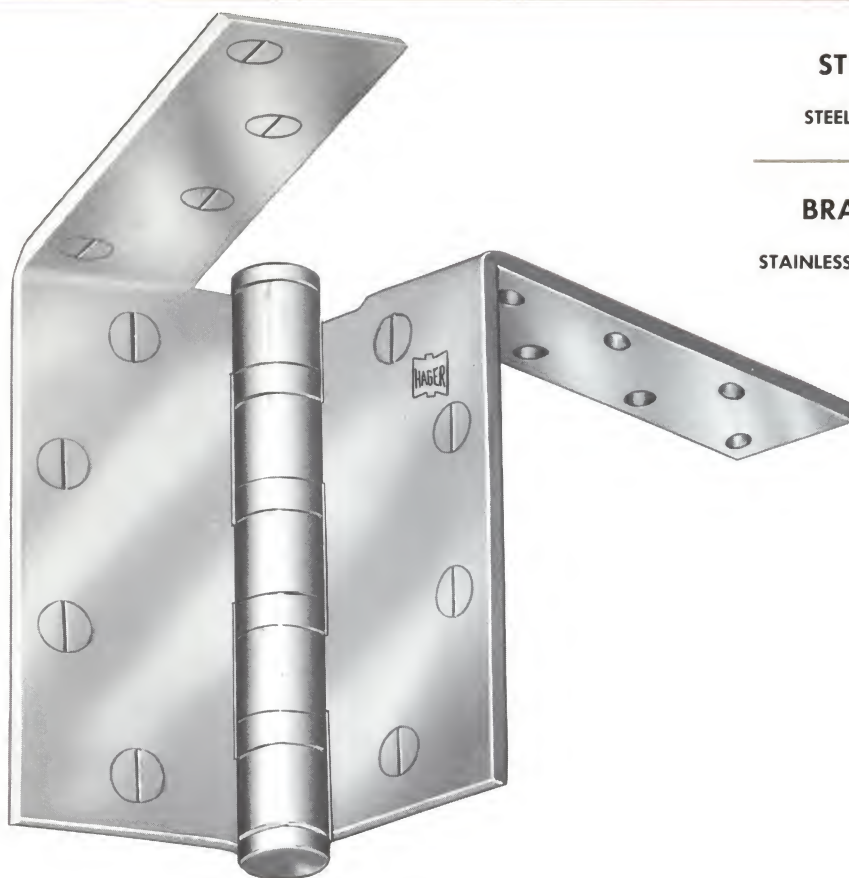
Licensed to manufacture under U. S. Patent no. 2,853,747.

Regularly furnished with wood screws for door leaf and machine screws for jamb leaf. If other screws are desired, please specify.

Size Open (Inches)	5 x 4½
Gauge of Metal	.190
Number of Holes	12
Wood Screw Size	1½ x 14
Machine Screw Size	½ x ¼-20
Weight per Box, Steel, Lbs.	7½
Weight per Box, Brass, Lbs.	8

Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • ANCHOR TYPE



STEEL

2A-BB 1168

STEEL PIN

BRASS

2A-BB 1199

STAINLESS PIN

HANDED—SPECIFY HAND DESIRED
FOUR BALL BEARINGS
TWO ANCHOR LEAVES
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 2A-BB 1168 PT.

Anchor hinges are sold in sets: a set consists of one anchor (illustrated) and one pair of extra heavy, full mortise template hinges, no. BB 1168 or BB 1199.

Anchor hinges are handed: please specify right or left hand as desired.

Licensed to manufacture under U. S. Patent 2,853,747.

Regularly furnished with wood screws for door leaf and machine screws for jamb leaf. If other screws are desired please specify.

Size Open (Inches)	5 x 4½
Gauge of Metal	.190
Number of Holes	16
Wood Screw Size	1½ x 14
Machine Screw Size	½ x ¼-20
Weight per Box, Steel, Lbs.	7½
Weight per Box, Brass, Lbs.	8¼

Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • OLIVE KNUCKLE

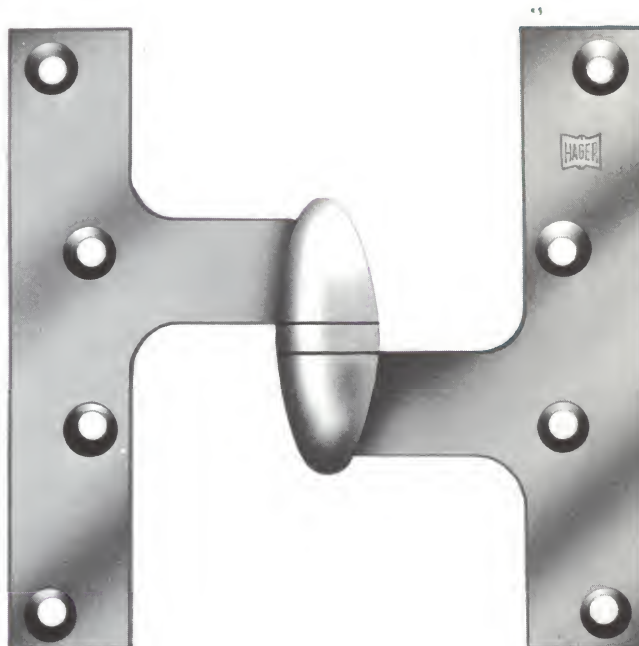
BB 1142

STEEL
STEEL PIN

BB 292

BRASS
STAINLESS PIN

HANDED—SPECIFY HAND DESIRED
HIGHLY POLISHED
TWO KNUCKLES
ONE BALL BEARING
DROP FORGED
WITH SCREWS



These hinges are available in both right and left hands: please specify hand desired.
All sizes are packed 1½ pair in a box with wood screws for both leaves and machine screws for one leaf. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	6 x 4	6 x 4½	6 x 5
Gauge of Metal	.203	.203	.203
Number of Holes	8	8	8
Wood Screw Size	1½ x 14	1½ x 14	1½ x 14
Machine Screw Size	½ x ¼-20	½ x ¼-20	½ x ¼-20
Pair in a Carton	12	12	12
Weight per Box, Steel, Lbs.	5	5¼	5½
Weight per Box, Brass, Lbs.	5	5¼	5½



When door is closed only the knuckles are visible.

Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • PIVOT TYPE



Detail "A"
TRUNCATED



Detail "B"
DOMED

STEEL

1/2" STAINLESS PIN

BB 1143

BRASS

1/2" STAINLESS PIN

BB 293

STAINLESS STEEL

1/2" STAINLESS PIN

SSBB 293

TWO KNUCKLES—SPECIFY DETAIL
HANDED—SPECIFY HAND DESIRED
HIGHLY POLISHED
TWO KNUCKLES
ONE BALL BEARING—INVISIBLE
OILITE BUSHING

The Hager "Executive." Available in two knuckle styles, truncated or domed: specify detail desired.

These pivots are available in both right and left hands: please specify hand desired.

All sizes are packed 1 1/2 pair in a box with wood screws for both leaves and machine screws for one leaf. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

Size Open (Inches)	5 x 4 1/2
Gauge of Metal	.203
Number of Holes	8
Wood Screw Size	1 1/2 x 14
Machine Screw Size	1/2 x 1/4-20
Pair in a Carton	24
Weight per Box, Steel, Lbs.	6 1/2
Weight per Box, Brass, Lbs.	7
Weight per Box, Stainless Steel Lbs.	6 1/2



Full Mortise Hinges

OILITE BEARING • EXTRA HEAVY • TEMPLATE • FRICTION TYPE

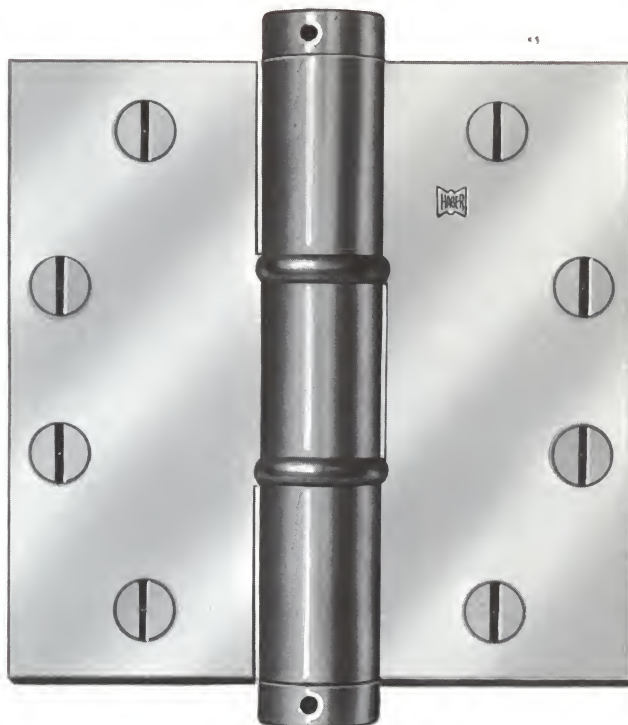
1153

GOV'T #T2121

STEEL

STEEL PIN

HIGHLY POLISHED
THREE KNUCKLES
BUTTON TIPS
ADJUSTABLE FRICTION PIN
WITH SCREWS



Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1153 PT.

This hinge will hold doors open at any angle and prevent them from slamming. Amount of friction adjusted at bottom of pin.

All sizes are packed 1½ pair in a box with one half machine screws and one half wood screws. If other screws are desired please specify.

Size Open (Inches)	4½ x 4	4½ x 4½	5 x 4	5 x 4½	5 x 5
Gauge of Metal	.180	.180	.190	.190	.190
Number of Holes	8	8	8	8	8
Wood Screw Size	1½ x 12	1½ x 12	1½ x 12	1½ x 12	1½ x 12
Machine Screw Size	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	24	24	24	24	24
Weight per Box, Steel, Lbs.	4¾	5	5¾	6	6¼

Full Mortise Hinges

OILITE BEARING • EXTRA HEAVY • TEMPLATE • FRICTION TYPE • HOSPITAL TYPE



STEEL

STEEL PIN

HT 1153

GOV'T #TH2121

HIGHLY POLISHED
THREE KNUCKLES
BARREL TOP ROUNDED
ADJUSTABLE FRICTION PIN
WITH SCREWS

Steel bonderized and prime coated hinges now carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT 1153 PT.

The top end of the barrel is rounded making it impossible to attach ropes, wearing apparel, etc.

This hinge will hold doors open at any angle and prevent them from slamming. Amount of friction adjusted at bottom of pin.

All sizes are packed 1½ pair in a box with one half machine screws and one half wood screws.

If other screws are desired please specify.

Size Open (Inches)	4½ x 4	4½ x 4½	5 x 4	5 x 4½	5 x 5
Gauge of Metal	.180	.180	.190	.190	.190
Number of Holes	8	8	8	8	8
Wood Screw Size	1½ x 12	1½ x 12	1½ x 12	1½ x 12	1½ x 12
Machine Screw Size	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a Carton	24	24	24	24	24
Weight per Box, Steel, Lbs.	4¾	5	5¾	6	6¼



Full Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • CLEAR SWING

BB 1268

STEEL
STAINLESS PIN

HTBB 1268

STEEL • HOSPITAL TYPE
STAINLESS PIN



FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
REVERSIBLE PLUG
WITH SCREWS

Designed to swing doors completely clear of the opening when door is opened 95°. When opened 90° door projects 1/8" past stop of jamb.

Applicable for 2" frames.

Affords use of full width of jamb opening.

Removable plug for reversing pin for application needed.

Furnished with one half machine screws and one half wood screws. When used with metal doors and metal jambs please specify "All Machine Screws," i.e. AMS.

All sizes are packed 1½ pair in a box with screws.

Size Open (Inches)	5
Gauge of Metal	.190
Number of Holes	8
Wood Screw Size	1½ x 12
Machine Screw Size	½ x 12-24
Pair in a Carton	24
Weight per Box, Steel, Lbs.	8

Full Mortise Pivots

BALL AND NEEDLE BEARINGS • EXTRA HEAVY • TEMPLATE



BRONZE MANGANESE STEEL PIN	295 TOP
BRONZE MANGANESE STEEL PIN	296 INTERMEDIATE
BRONZE MANGANESE STEEL PIN	297 BOTTOM

TWO KNUCKLES
BALL AND NEEDLE BEARINGS
HANDED—SPECIFY HAND
HIGHLY POLISHED
CAST GUN METAL
WITH SCREWS

Used on high frequency, extra heavy doors of wood or metal and doors of unusual height and width.
All pivot hinges are equipped with life-time bearings, lubricated and protected against dirt and moisture.

Recommendations for use: a) three pivots on doors 3'0" x 7'6" and up to 350 lbs. in weight
b) for each 6" in width over 3'0", add one pivot #296 (center)
c) for each 6" up to 12" in heights over 7'6" add one pivot #296 (center)

Adjustment: Sagging, settlement or binding can be corrected by raising or lowering the door 1/4 inch by a simple screw driver adjustment in bottom and center pivots.

A Set consists of One Top Pivot #295, One Intermediate Pivot #296, and One Bottom Pivot #297.
Regularly furnished with one half machine screws and one half wood screws.

When using metal doors and metal jambs, please specify "All Machine Screws", i.e. AMS.
Packed One Top Pivot per box, One Intermediate Pivot per box, and One Bottom Pivot per box.

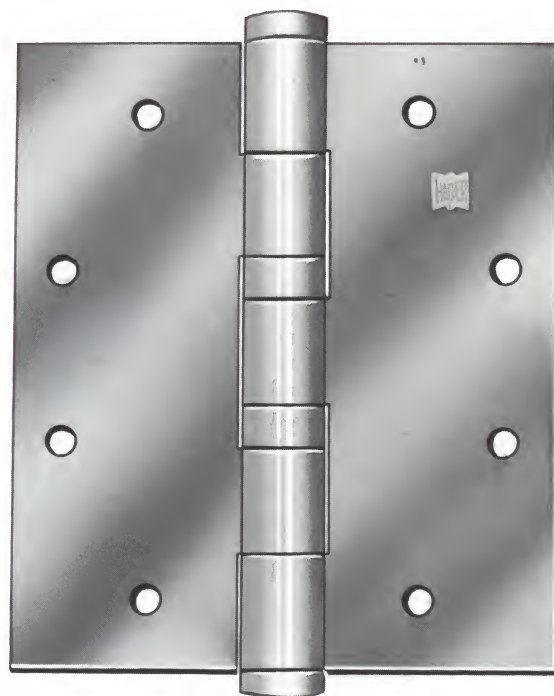
Type	Top #295	Intermediate #296	Bottom #297
Gauge of metal	.240	.315	.240
Number of holes	8	8	8
Wood screw size	1 1/4 x 14	1 1/4 x 14	1 1/4 x 14
Machine screw size	1/2 x 1/4-20	1/2 x 1/4-20	1/2 x 1/4-20
Sets in a carton	1	1	1
Weight per pivot, lbs.	1 1/4	1 3/4	2 1/4

Full Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE

BB 1277	STEEL—BOTH LEAVES TAPPED STEEL PIN
BB 1577	BRASS—BOTH LEAVES TAPPED STAINLESS PIN
BB 1278	STEEL—ONE LEAF TAPPED STEEL PIN
BB 1578	BRASS—ONE LEAF TAPPED STAINLESS PIN

TWO BALL BEARINGS
5/16" SWAGE—BB 1277 & BB 1577
3/16" SWAGE—BB 1278 & BB 1578
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON-RISING REMOVABLE PINS
WITH SCREWS



The BB 1278 and BB 1578 hinges are handed: please specify hand.
All of these hinges are used where one or both leaves are inserted through a slot in the door or frame and the hinge leaf there acts as its own reinforcement.
All sizes are packed 1½ pair in a box with screws.
The BB 1277 and BB 1577 hinges are furnished with machine screws for both leaves.
The BB 1278 and BB 1578 hinges are furnished with one half machine screws and one half wood screws. If other screws are desired please specify.

Size open (inches)	4 x 4	4½ x 4	4½ x 4½
Gauge of Metal	.130	.134	.134
Number of holes	8	8	8
Wood screw size	1¼ x 12	1¼ x 12	1¼ x 12
Machine screw size	½ x 12-24	½ x 12-24	½ x 12-24
Pair in a carton	24	24	24
Weight per box, steel, lbs.	3	3½	3½
Weight per box, brass, lbs.	3¼	3¾	3¾

Half Surface Hinges

PLAIN BEARING • REGULAR WEIGHT • NON-TEMPLATE



STEEL
STEEL PIN

1164

FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with wood jambs.

Screw holes located in surface leaf to hold securely in hollow core doors.

Removable plug for reversing pin for application needed.

Furnished with oval head screws for surface leaf and flat head screws for jamb leaf.

All sizes packed 1 pair in a box with wood screws.

Height (Inches)	3	3½
Gauge of metal	.092	.104
Door leaf width	15/16	1 1/2
Jamb leaf width	1 1/4	1 1/2
Door leaf offset	3/8	7/16
Number of holes	6	6
Screw size	7/8 x 8	1 x 9
Pair in a carton	50	50
Weight per carton, lbs.	33	50



EVERYTHING HINGES ON HAGER

39

Half Surface Hinges

PLAIN BEARING • REGULAR WEIGHT • NON-TEMPLATE

1150

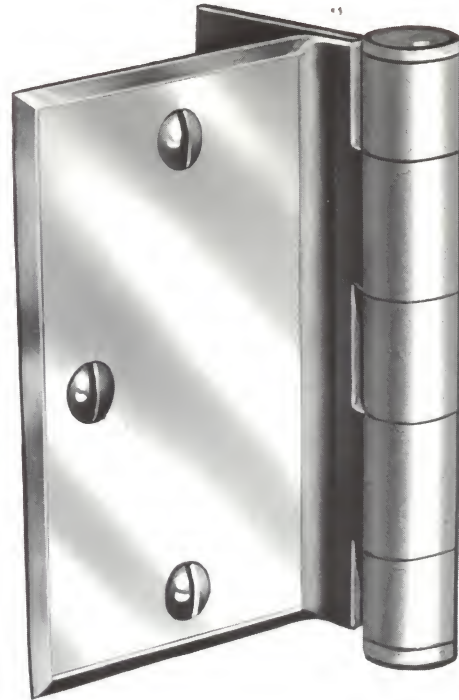
STEEL

STEEL PIN

1550

BRASS

STAINLESS PIN



FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with wood jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1150 PT.

Removable plug for reversing pin for application needed.

Furnished with oval head screws for surface leaf and flat head screws for jamb leaf.

Sizes 2 and 2½ inch packed 5 pair in a box with wood screws.

Larger sizes packed one pair in a box.

Height (inches)	2	2½	3	3½	4	4½	5
Gauge of metal	.065	.089	.092	.123	.130	.134	.146
Door leaf width	13/16	13/8	17/8	21/16	21/4	29/16	27/8
Jamb leaf width	7/8	11/4	11/2	13/4	2	21/4	21/2
Door leaf offset	3/8	1/2	9/16	11/16	11/16	3/4	1
Number of holes	5	6	6	6	7	7	8
Screw size	3/4 x 7	3/4 x 8	7/8 x 8	1 x 9	1 x 10	1 1/4 x 12	1 1/4 x 12
Pair in a carton	100	100	50	50	25	20	20
Weight per carton, lbs.	22	58	41	70	45	55	65

Half Surface Hinges

BALL BEARING • REGULAR WEIGHT • NON-TEMPLATE



STEEL

BB 1150

STEEL PIN

GOVT. #2135

BRASS

BB 2116

STAINLESS PIN

GOVT. #2132

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with wood jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1150 PT.

Removable plug for reversing pin for application needed.

Regularly furnished with flat head wood screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	3½	4	4½	5
Gauge of metal	.123	.130	.134	.146
Door leaf width	2 1/8	2 1/4	2 9/16	2 7/8
Jamb leaf width	1 3/4	2	2 1/4	2 1/2
Door leaf offset	1 1/16	1 1/16	3/4	1
Number of holes	6	7	7	8
Jamb leaf screw size	1 x 9	1 x 10	1 1/4 x 12	1 1/4 x 12
Door leaf screw size	1 3/4 x 10-24	2 x 1 1/4-20	2 x 1 1/4-20	2 x 1 1/4-20
Pair in a carton	48	24	24	24
Weight per box steel, lbs.	2	2 3/4	4 1/4	4 3/4
Weight per box brass, lbs.	2 1/4	3	4 3/4	5 1/4

Half Surface Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

1173

STEEL
STEEL PIN

2112

BRASS
STAINLESS PIN



POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with pressed steel jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1173 PT.

Removable plug for reversing pin for application needed.

Inner leaf edges beveled on 2112.

Furnished with flat head machine screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	3	3½	4	4½	5
Gauge of metal	.092	.123	.130	.134	.146
Door leaf width	1 13/16	2 1/8	2 1/4	2 9/16	2 7/8
Jamb leaf width	1 1/2	1 3/4	2	2 1/4	2 1/2
Door leaf offset	9/16	1 1/16	1 1/16	3/4	1
Number of holes	6	6	7	7	8
Jamb leaf screw size	1/2 x 10-24	1/2 x 10-24	1/2 x 12-24	1/2 x 12-24	1/2 x 12-24
Door leaf screw size	1 3/4 x 10-24	1 3/4 x 10-24	2 x 1/4-20	2 x 1/4-20	2 x 1/4-20
Pair in a carton	48	48	24	24	24
Weight per box steel, lbs.	1 1/4	2	2 3/4	4 1/4	4 3/4
Weight per box brass, lbs.	—	2 1/4	3	4 3/4	5 1/4

Half Surface Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE



STEEL

BB 1173

STEEL PIN

GOVT. #T2135

BRASS OR BRONZE

BB 2112

STAINLESS PIN

GOVT. #T2132

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with pressed steel jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e BB 1173 PT.

Removable plug for reversing pin for application needed.

Furnished with flat head machine screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4	4½	5
Gauge of metal	.130	.134	.146
Door leaf width	2 1/4	2 9/16	2 7/8
Jamb leaf width	2	2 1/4	2 1/2
Door leaf offset	1 1/16	3/4	1
Number of holes	7	7	8
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 12-24
Door leaf screw size	2 x 1/4-20	2 x 1/4-20	2 x 1/4-20
Pair in a carton	24	24	24
Weight per box steel, lbs.	23/4	4 1/4	4 3/4
Weight per box brass, lbs.	3	4 3/4	5 1/4

Half Surface Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • HOSPITAL TYPE

HTBB 1173

GOVT. #TH2133

STEEL

STEEL PIN

HTBB 2112

GOVT. #TH2132

BRASS OR BRONZE

STAINLESS PIN

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON REMOVABLE RIVETED PINS
BEVELED SURFACE LEAF
WITH SCREWS



For use with pressed steel jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT BB 1173 PT.

Barrel ends rounded to make it impossible to attach ropes, wearing apparel, etc.

Regularly furnished with flat head machine screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4	4½	5
Gauge of metal	.130	.134	.146
Door leaf width	2 1/4	2 9/16	2 7/8
Jamb leaf width	2	2 1/4	2 1/2
Door leaf offset	1 1/16	3/4	1
Number of holes	7	7	8
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 12-24
Door leaf screw size	2 x 1/4-20	2 x 1/4-20	2 x 1/4-20
Pair in a carton	24	24	24
Weight per box steel, lbs.	2 3/4	4 1/4	4 3/4
Weight per box brass, lbs.	3	4 3/4	5 1/4

Half Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE



STEEL

BB 1163

STEEL PIN

GOVT. #T2137

BRASS OR BRONZE

BB 2113

STAINLESS PIN

GOVT. #T2136

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with pressed steel jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1163 PT.

Removable plug for reversing pin for application needed.

Furnished with flat head machine screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

*Door thickness must be specified when ordering size—6 inch as jamb leaf width varies.

Height (inches)	4½	5	6*
Gauge of metal	.180	.190	.203
Door leaf width	2 ⁹ / ₁₆	2 ⁷ / ₈	3 ¹ / ₄
Jamb leaf width	2 ¹ / ₂	2 ¹ / ₂	2 ⁵ / ₈ or 3
Door leaf offset	1	1	1 ¹ / ₈
Number of holes	7	8	10
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 1/4-20
Door leaf screw size	2 ¹ / ₄ x 1/4-20	2 ¹ / ₄ x 1/4-20	2 ³ / ₄ x 1/4-20
Pair in a carton	24	24	12
Weight per box steel, lbs.	5 ¹ / ₂	6 ³ / ₄	9 ¹ / ₄
Weight per box brass, lbs.	6	7 ¹ / ₂	10 ¹ / ₄

Half Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • HOSPITAL TYPE

HTBB 1163

GOVT. #TH2137

STEEL

STEEL PIN

HTBB 2113

GOVT. #TH2136

BRASS OR BRONZE

STAINLESS PIN



FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON REMOVABLE RIVETED PINS
BEVELED SURFACE LEAF
WITH SCREWS

For use with pressed steel jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT BB 1163 PT.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

Regularly furnished with flat head machine screws for the jamb leaf and oval head machine screws with grommet nuts for the door leaf.

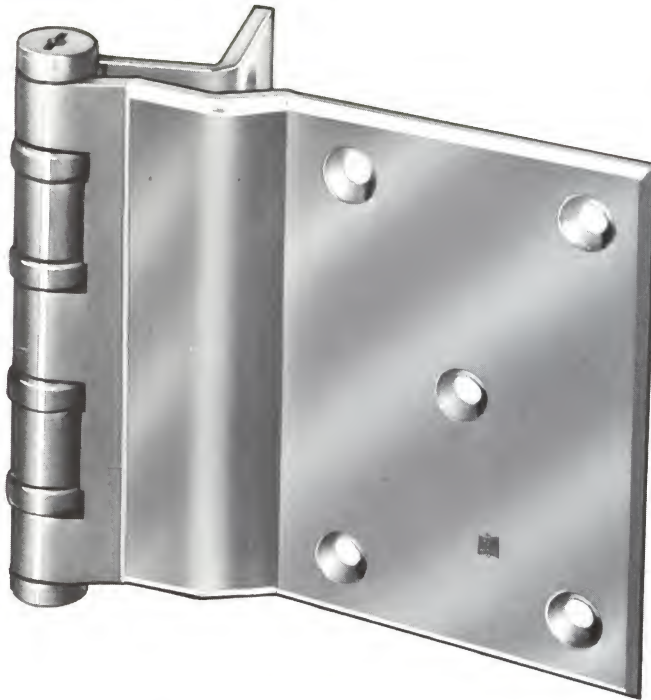
All sizes packed 1½ pair in a box with screws.

*Door thickness must be specified when ordering size—6 inch as jamb width varies.

Height (inches)	4½	5	6*
Gauge of metal	.180	.190	.203
Door leaf width	29⅛	27⅛	3¼
Jamb leaf width	2½	2½	2⅝ or 3
Door leaf offset	1	1	1⅛
Number of holes	7	8	10
Jamb leaf screw size	½ x 12-24	½ x 12-24	½ x ¼-20
Door leaf screw size	2¼ x ¼-20	2¼ x ¼-20	2¾ x ¼-20
Pair in a carton	24	24	12
Weight per box steel, lbs.	5½	6¾	9¼
Weight per box brass, lbs.	6	7½	10¼

Half Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • CLEAR SWING



STEEL
STAINLESS PIN

BB 1270

STEEL • HOSPITAL TYPE
STAINLESS PIN

HTBB 1270

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON-RISING REMOVABLE PIN
BEVELED SURFACE LEAVES
REVERSIBLE PLUG
WITH SCREWS

For use with pressed steel frames.

Designed to swing down completely clear of the opening when door is opened 95°. When opened 90°, door projects 1/8" past stop of jamb.

Affords use of full width of jamb opening.

Removable plug for reversing pin for application needed.

Furnished with flat head machine screws for the jamb leaf and oval head wood screws for the door leaf.

All sizes packed 1 1/2 pair in a box with screws.

Height (inches)	5
Gauge of Metal	.190
Number of Holes	9
Jamb Leaf Screw Size	1/2 x 12-24
Door Leaf Screw Size	1 1/4 x 12
Pair in a Carton	12
Weight per Box, Steel, lbs.	8 1/4



Half Surface Hinges

BALL BEARING • EXTRA HEAVY • TEE HINGE

BB 1991

GOVT. #2178

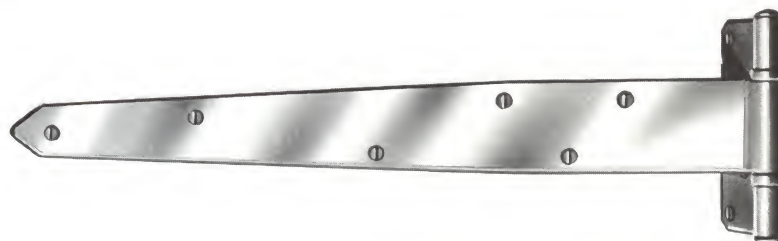
STEEL • NON TEMPLATE

STEEL PIN

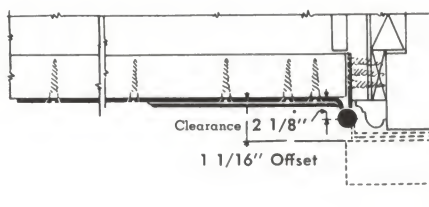
TBB 1991

STEEL • TEMPLATE

STEEL PIN



TWO BALL BEARINGS
THREE KNUCKLES
RIVETED NON REMOVABLE PIN
1-1/16 INCH OFFSET
WITH SCREWS



1 1/16" offset in surface leaf to allow clearance for maximum of 2 1/8" molding.
BB 1991 furnished with wood screws for jamb leaf and carriage bolts for surface leaf.
TBB 1991 furnished with machine screws for jamb leaf and carriage bolts for surface leaf.
All sizes packed 1 pair in a box with screws.

Length of strap	12	18	24	36
Width of door leaf	3	3	3	4
Length of jamb leaf	7	7	7	8
Width of jamb leaf	2 5/8	2 5/8	2 5/8	3 1/2
Gauge of metal	.164	.164	.164	.197
Number of holes	10	11	11	14
Jamb leaf screw size	1 1/2 x 14	1 1/2 x 14	1 1/2 x 14	1 1/2 x 14
Carriage bolt size	2 1/2 x 5/16	2 1/2 x 5/16	2 1/2 x 5/16	2 1/2 x 5/16
Weight per box steel, lbs.	7 1/4	9 3/4	10 1/2	19 1/2

Half Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE



STEEL

1167

STEEL PIN

BRASS

1108

STAINLESS PIN

INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with channel iron jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1167 PT.

Removable plug for reversing pin for application needed.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5
Gauge of metal	.134	.146
Door leaf width	2¼	2½
Jamb leaf width	1½	1½
Jamb leaf offset	13/16	7/8
Number of holes	7	8
Screw size	½ x 12-24	½ x 12-24
Pair in a carton	24	24
Weight per box, steel, lbs.	3½	4½
Weight per box, brass, lbs.	4	5

Half Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • TEMPLATE

1129

STEEL

STEEL PIN

1109

BRASS

STAINLESS PIN

POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS



Offset for maximum mortise of $1\frac{1}{8}$ " and use on standard commodity hollow metal doors where $\frac{1}{4}$ " hinge back set is prevalent.

For use on channel iron jambs.

Removable plug for reversing pin for application needed.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for door leaf.

All sizes packed $1\frac{1}{2}$ pair in a box with screws.

Height (inches)	$4\frac{1}{2}$
Gauge of metal	.134
Door leaf width	$27\frac{1}{16}$
Jamb leaf width	$1\frac{1}{2}$
Jamb leaf offset	$13\frac{1}{16}$
Number of holes	7
Screw size	$\frac{1}{2} \times 12-24$
Pair in a carton	24
Weight per box, steel, lbs.	$3\frac{1}{2}$
Weight per box, brass, lbs.	4

Half Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE



STEEL

BB 1129

STEEL PIN

BRASS

BB 1109

STAINLESS PIN

TWO BALL BEARINGS
POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

Offset for maximum mortise of $1\frac{3}{8}$ " and use on standard commodity hollow metal doors where $\frac{1}{4}$ " hinge back set is prevalent.

For use on channel iron jambs.

Removable plug for reversing pin for application needed.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for door leaf.

All sizes packed $1\frac{1}{2}$ pair in a box with screws.

Height (inches)	$4\frac{1}{2}$
Gauge of metal	.134
Door leaf width	$27\frac{1}{16}$
Jamb leaf width	$1\frac{1}{2}$
Jamb leaf offset	$13\frac{1}{16}$
Number of holes	7
Screw size	$\frac{1}{2} \times 12-24$
Pair in a carton	24
Weight per box, steel, lbs.	$3\frac{1}{2}$
Weight per box, brass, lbs.	4

Half Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE

BB 1167

GOVT. #T2143

STEEL

STEEL PIN

BB 1108

GOVT. #T2142

BRASS OR BRONZE

STAINLESS PIN



TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with channel iron jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1167 PT.

Removable plug for reversing pin for application needed.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5
Gauge of metal	.134	.146
Door leaf width	2 1/4	2 1/2
Jamb leaf width	1 1/2	1 1/2
Jamb leaf offset	13/16	7/8
Number of holes	7	8
Screw size	1/2 x 12-24	1/2 x 12-24
Pair in a carton	24	24
Weight per box, steel, lbs.	3 1/2	4 1/2
Weight per box, brass, lbs	4	5

Half Mortise Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 1167

STEEL PIN

GOVT. #TH2143

BRASS

HTBB 1108

STAINLESS PIN

GOVT. #TH2142

TWO BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON REMOVABLE RIVETED PIN
BEVELED SURFACE LEAF

For use on channel iron jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HT BB 1167 PT.

The barrel ends are rounded to make it impossible to attach ropes, wearing apparel, etc.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5
Gauge of metal	.134	.146
Door leaf width	2¼	2½
Jamb leaf width	1½	1½
Jamb leaf offset	13/16	7/8
Number of holes	7	8
Screw size	1/2 x 12-24	1/2 x 12-24
Pair in a carton	24	24
Weight per box, steel, lbs.	3½	4½
Weight per box, brass, lbs.	4	5

Half Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE

BB 1138

GOVT. #T2147

STEEL

STEEL PIN

BB 2098

GOVT. #T2146

BRASS OR BRONZE

STAINLESS PIN



FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAF
REVERSIBLE PLUG
WITH SCREWS

For use with channel iron jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 1138 PT.

Removable plug for reversing pin for application needed.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for the door leaf.

All sizes packed 1½ pair in a box with screws.

*Door thickness must be specified when ordering size—6 inch as door leaf width varies.

Height (inches)	4½	5	6*
Gauge of metal	.180	.190	.203
Door leaf width	2¼	2¼	2⅝ or 3
Jamb leaf width	1½	1½	1½
Jamb leaf offset	7/8	7/8	1
Number of holes	7	8	9
Screw size	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4½	5¼	7½
Weight per box, brass, lbs.	5	5¾	8¼

Half Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 1138

STEEL PIN

GOVT. #TH2146

BRASS OR BRONZE

HTBB 2098

STAINLESS PIN

GOVT. #TH2147

FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON REMOVABLE RIVETED PIN
BEVELED SURFACE LEAF
WITH SCREWS

For use on channel iron jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as suffix, i.e. HT BB 1138 PT.

The barrel ends are rounded to make it impossible to attach ropes, wearing apparel, etc.

Regularly furnished with oval head machine screws for the jamb leaf and flat head machine screws for the door leaf.

All sizes packed 1½ pair in a box with screws.

*Door thickness must be specified when ordering size—6 inch as door leaf width varies.

Height (inches)	4½	5	6*
Gauge of metal	.180	.190	.203
Door leaf width	2¼	2¼	2⅝ or 3
Jamb leaf width	1½	1½	1½
Jamb leaf offset	⅞	⅞	1
Number of holes	7	8	9
Screw size	½ x 12-24	½ x 12-24	½ x ¼-20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4½	5¼	7½
Weight per box, brass, lbs.	5	5¾	8¼

Half Mortise Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • CLEAR SWING

BB 1264

GOVT. #T2160

STEEL

STAINLESS PIN

HTBB 1264

GOVT. #TH2160

STEEL • HOSPITAL TYPE

STAINLESS PIN



FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PINS
REVERSIBLE PLUGS
WITH SCREWS

For use on channel iron or pressed steel jambs.

Designed to swing door completely clear of the opening when door is opened 95°. When opened 90°, door projects 1/8" past stop of jamb.

Application for 2" frames.

Afford use of full width of jamb opening.

Removable plug for reversing pin for application needed.

Furnished with flat head machine screws for jamb leaf and wood screws for door leaf. When used with metal doors, please specify "All Machine Screws", i.e. AMS.

All sizes packed 1½ pair in a box with screws.

Height (inches)	5
Gauge of metal	.190
Number of holes	9
Door leaf screw size	1 1/4 x 12
Jamb leaf screw size	1/2 x 1/4-20
Pair in a carton	24
Weight per box, steel, lbs.	6 3/4

Full Surface Hinges

PLAIN BEARING • REGULAR WEIGHT • NON-TEMPLATE



STEEL	1221
STEEL PIN	
BRASS	1551
STAINLESS PIN	

FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAVES
WITH SCREWS

For use with wood jambs.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. 1221 PT.

Brass hinges 2½" and smaller have brass pins.

Furnished with oval-head wood screws.

Sizes 2 x 2 and 2½ x 2½ packed five pair in a box with screws.

Larger sizes packed 1 pair in a box with screws.

Height (inches)	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4
Gauge of metal	.080	.089	.092	.123	.130
Number of holes	4	6	6	6	8
Screw size	¾ x 7	¾ x 8	1 x 8	1 x 9	1 x 10
Pair in a carton	100	100	50	50	25
Carton weight, steel, lbs.	35	50	37½	75	50
Carton weight, brass, lbs.	40	55	50	87½	56

Full Surface Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE

BB 2171

GOVT. #T2153

STEEL

STEEL PIN

BB 2110

GOVT. #T2152

BRASS OR BRONZE

STAINLESS PIN



1/8" OFFSET
 TWO BALL BEARINGS
 INNER LEAF EDGES BEVELED
 HIGHLY POLISHED
 FIVE KNUCKLES
 BUTTON TIPS
 NON RISING REMOVABLE PIN
 BEVELED SURFACE LEAVES
 REVERSIBLE PLUG
 WITH SCREWS

For use with channel iron frames.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 2171 PT.

Removable plug for reversing pin for application needed.

Furnished with oval-head machine screws for the jamb leaf and oval-head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5
Gauge of metal	.134	.146
Door leaf width	29/16	27/8
Jamb leaf width	1 1/2	1 1/2
Door leaf offset	15/16	1
Jamb leaf offset	13/16	7/8
Number of holes	6	8
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24
Door leaf screw size	2 x 1/4-20	2 x 1/4-20
Pair in a carton	24	24
Weight per box, steel, lbs.	4	5
Weight per box, brass, lbs.	4 1/2	5 1/2

Full Surface Hinges

BALL BEARING • REGULAR WEIGHT • TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 2171

STEEL PIN

GOVT. #TH2153

BRASS OR BRONZE

HTBB 2110

STAINLESS PIN

GOVT. #TH2152

1/8" OFFSET

TWO BALL BEARINGS

INNER LEAF EDGES POLISHED

HIGHLY POLISHED

FIVE KNUCKLES

BARREL ENDS ROUNDED

NON REMOVABLE RIVETED PIN

BEVELED SURFACE LEAVES

WITH SCREWS

For use with channel Iron frames.

Steel bonderized and prime coated hinges carry their regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 2171 PT.

Barrel ends rounded, making it impossible to attach ropes, wearing apparel, etc.

Furnished with oval-head machine screws for the jamb leaf and oval-head machine screws with grommet nuts for the door leaf.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5
Gauge of metal	.134	.146
Door leaf width	29/16	27/8
Jamb leaf width	1 1/2	1 1/2
Door leaf offset	15/16	1
Jamb leaf offset	13/16	7/8
Number of holes	6	8
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24
Door leaf screw size	2 x 1/4-20	2 x 1/4-20
Pair in a carton	24	24
Weight per box, steel, lbs.	4	5
Weight per box, brass, lbs.	4 1/2	5 1/2

Hager

EVERYTHING HINGES ON HAGER

59

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE

BB 2169

GOVT. #TH2157

STEEL

STEEL PIN

BB 2109

GOVT. #TH2156

BRASS OR BRONZE

STAINLESS PIN



1/8" OFFSET
 FOUR BALL BEARINGS
 INNER LEAF EDGES BEVELED
 HIGHLY POLISHED
 FIVE KNUCKLES
 BUTTON TIPS
 NON RISING REMOVABLE PIN
 BEVELED SURFACE LEAVES
 REVERSIBLE PLUG
 WITH SCREWS

For use with channel iron frames.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 2169 PT.

Removable plug for reversing pin for application needed.

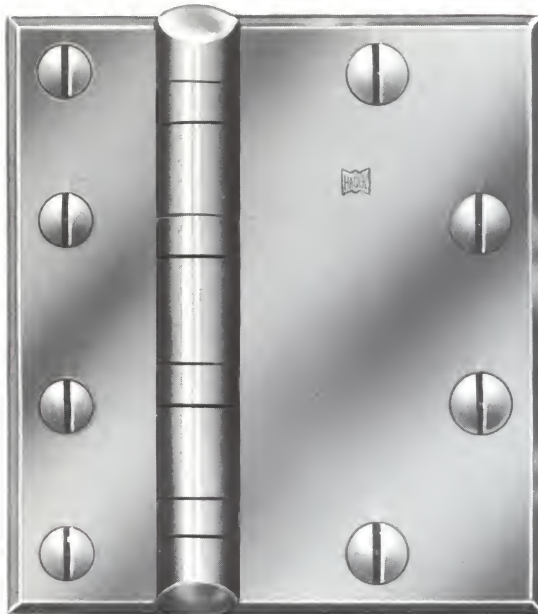
Furnished with oval-head machine screws for the jamb leaf and oval-head machine screws with grommet nuts for the door leaf.

All sizes packed 1 1/2 pair in a box with screws.

Height (inches)	4 1/2	5	6
Gauge of metal	.180	.190	.203
Door leaf width	2 9/16	2 7/8	3 1/4
Jamb leaf width	1 1/2	1 1/2	1 1/2
Door leaf offset	1	1	1 1/8
Jamb leaf offset	7/8	7/8	1
Number of holes	6	7	9
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 1/4-20
Door leaf screw size	2 1/4 x 1/4-20	2 1/4 x 1/4-20	2 1/2 x 1/4-20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4 1/2	7	9 3/4
Weight per box, brass, lbs	5	7 3/4	10 3/4

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 2169

STEEL PIN

GOVT. #T2157

BRASS OR BRONZE

HTBB 2109

STAINLESS PIN

GOVT. #T2156

1/8" OFFSET
FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON REMOVABLE RIVETED PIN
BEVELED SURFACE LEAVES
WITH SCREWS

For use with channel iron frames.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 2169 PT.

Furnished with oval-head machine screws for the jamb leaf and oval-head machine screws with grommet nuts for the door leaf.

Barrel ends rounded, making it impossible to attach ropes, wearing apparel, etc.

All sizes are packed 1 1/2 pair in a box with screws.

Height (inches)	4 1/2	5	6
Gauge of metal	.180	.190	.203
Door leaf width	2 9/16	2 7/8	3 1/4
Jamb leaf width	1 1/2	1 1/2	1 1/2
Door leaf offset	1	1	1 1/8
Jamb leaf offset	7/8	7/8	1
Number of holes	6	7	9
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 1/4-20
Door leaf screw size	2 1/4 x 1/4-20	2 1/4 x 1/4-20	2 1/4 x 1/4-20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4 1/2	7	9 3/4
Weight per box, brass, lbs.	5	7 3/4	10 3/4

Hager

EVERYTHING HINGES ON HAGER

61

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE

BB 2169 $\frac{1}{2}$

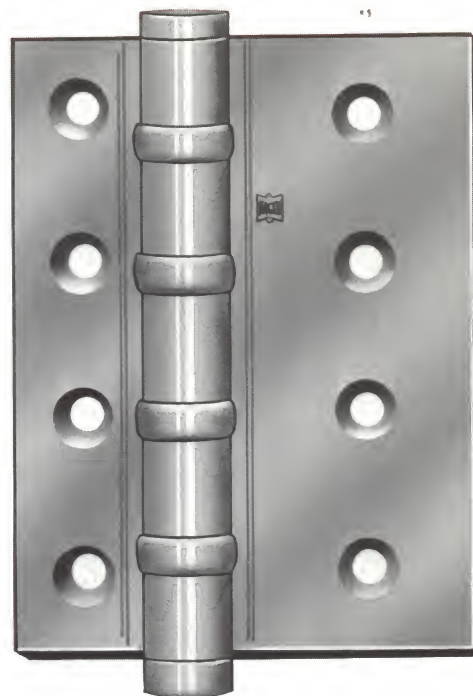
STEEL

STEEL PIN

BB 2109 $\frac{1}{2}$

BRASS

STAINLESS PIN



$\frac{1}{8}$ " OFFSET
FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAVES
REVERSIBLE PLUG
WITH SCREWS

For use with channel iron frames.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. BB 2169 $\frac{1}{2}$ PT.

Removable plug for reversing pin for application needed.

Furnished with oval-head machine screws for both leaves.

All sizes packed 1 $\frac{1}{2}$ pair in a box with screws.

Height (inches)	4 $\frac{1}{2}$	5	6
Gauge of metal	.180	.190	.203
Door leaf width	2	2 $\frac{5}{16}$	2 $\frac{3}{8}$
Jamb leaf width	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Door leaf offset	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$
Jamb leaf offset	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{7}{16}$
Number of holes	6	7	9
Jamb leaf screw size	$\frac{1}{2}$ x 12-24	$\frac{1}{2}$ x 12-24	$\frac{1}{2}$ x 12-24
Door leaf screw size	2 x $\frac{1}{4}$ -20	2 x $\frac{1}{4}$ -20	2 x $\frac{1}{4}$ -20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4 $\frac{1}{2}$	7	9 $\frac{3}{4}$
Weight per box, brass, lbs.	5	7 $\frac{3}{4}$	10 $\frac{3}{4}$

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • HOSPITAL TYPE



STEEL

HTBB 2169½

STEEL PIN

BRASS

HTBB 2109½

STAINLESS PIN

⅛" OFFSET
FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BARREL ENDS ROUNDED
NON RISING RIVETED PIN
BEVELED SURFACE LEAVES
WITH SCREWS

For use with channel iron frames.

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e. HTBB 2169½ PT.

Furnished with oval-head machine screws for both leaves.

Barrel ends rounded making it impossible to attach ropes, wearing apparel, etc.

All sizes packed 1½ pair in a box with screws.

Height (inches)	4½	5	6
Gauge of metal	.180	.190	.203
Door leaf width	2	25/16	23/8
Jamb leaf width	1½	1½	1½
Door leaf offset	9/16	9/16	9/16
Jamb leaf offset	7/16	7/16	7/16
Number of holes	6	7	9
Jamb leaf screw size	1/2 x 12-24	1/2 x 12-24	1/2 x 1/4-20
Door leaf screw size	2 x 1/4-20	2 x 1/4-20	2 x 1/4-20
Pair in a carton	24	24	12
Weight per box, steel, lbs.	4½	7	93/4
Weight per box, brass, lbs	5	73/4	103/4

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEMPLATE • CLEAR SWING

BB 1266

GOVT. #T2163

STEEL

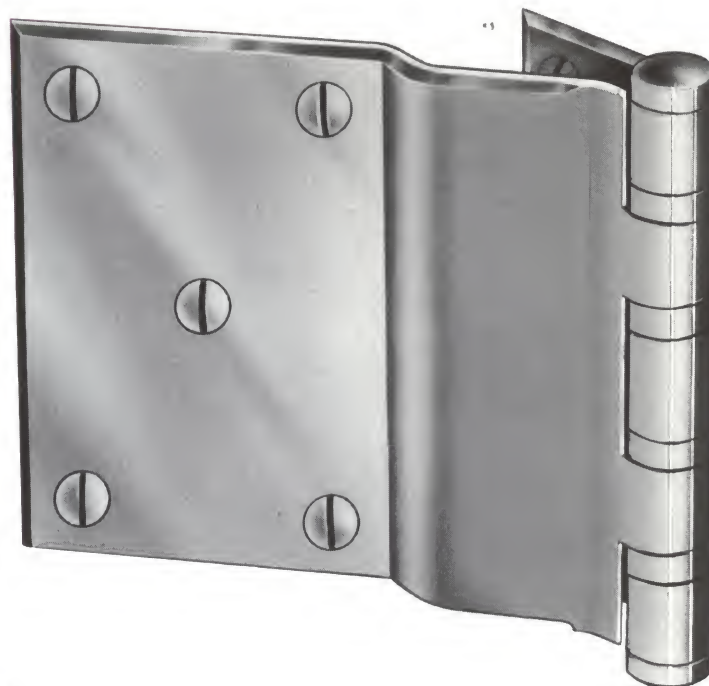
STAINLESS PIN

HTBB 1266

GOVT. #TH2163

STEEL HOSPITAL TYPE

STAINLESS PIN



FOUR BALL BEARINGS
INNER LEAF EDGES BEVELED
HIGHLY POLISHED
FIVE KNUCKLES
BUTTON TIPS
NON RISING REMOVABLE PIN
BEVELED SURFACE LEAVES
REVERSIBLE PLUG
WITH SCREWS

For use with channel iron or pressed steel frames.

Designed to swing door completely clear of the opening when door is opened 95°. When opened 90°, door projects 1/8" past stop of jamb.

Application for 2" frames.

Afford use of full width of jamb opening.

Removable plug for reversing pin for application needed.

Furnished with flat-head machine screws for the jamb leaf and oval-head wood screws for the door leaf.

All sizes packed 1 1/2 pair in a box with screws.

Height (inches)	5
Gauge of metal	.190
Number of holes	9
Jamb leaf screw size	1/2 x 1/4-20
Door leaf screw size	1 1/4 x 12
Pair in a carton	24
Weight per box, steel, lbs.	8 1/4
Weight per box, brass, lbs.	9
Door leaf width	5 15/16
Jamb leaf width	1 9/16

Prison Hinges

BALL BEARING • TRIPLE WEIGHT • TEMPLATE

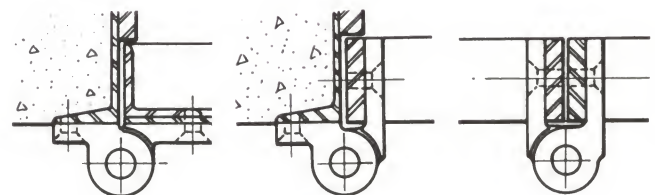


STEEL	BB 1852
STEEL PIN	FULL SURFACE
STEEL	BB 1853
STEEL PIN	HALF SURFACE
STEEL	BB 1854
STEEL PIN	FULL MORTISE

TWO BALL BEARING—12 ONLY ¼" BALLS EACH
 DROP FORGED STEEL
 HARDENED NON REMOVABLE ¾" PIN
 THREE KNUCKLES
 OIL HOLE AND DUCT PROVIDED
 GREY PAINTED FINISH

For use as illustrated in jails, etc. and lead lined or other very heavy doors.
 Furnished with holes countersunk for ½" prison security screws.
 Available without holes for welding upon request.
 Width of leaves must be specified.
 Available for right or left hand use. Specify hand desired.
 Packed without screws.

Height (inches)	5
Width (Max.)	6¼
Width (Min.)	4
Gauge of Metal.	.500
Knuckle diameter	1¾



BB-1852

BB-1853

BB-1854



EVERYTHING HINGES ON HAGER

65

Full Surface Hinges

BALL BEARING • EXTRA HEAVY • TEE HINGE

BB-1967

STEEL • NON TEMPLATE

STEEL PIN

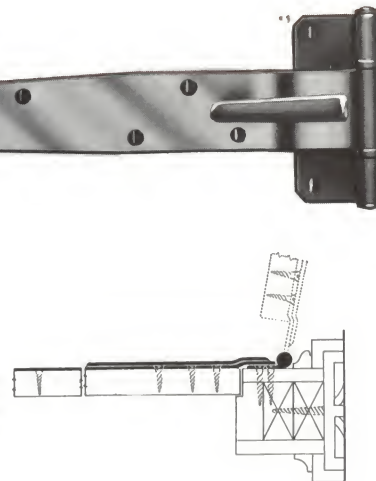
TBB-1967

STEEL • TEMPLATE

STEEL PIN

TWO BALL BEARING
THREE KNUCKLES
RIVETED NON REMOVABLE PIN
THROWS DOOR CLEAR OF OPENING
WITH SCREWS

Installation
Illustration:



BB-1992

STEEL • NON TEMPLATE

STEEL PIN

TBB-1992

STEEL • TEMPLATE

STEEL PIN

TWO BALL BEARING
THREE KNUCKLES
RIVETED NON REMOVABLE PIN
WITH SCREWS

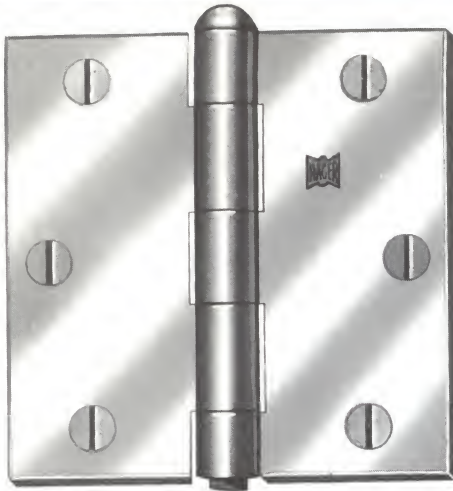


Non-template hinges furnished with wood screws for jamb leaf and carriage bolts for surface leaf.
Template hinges furnished with machine screws for jamb leaf and carriage bolts for surface leaf.
All sizes packed 1 pair in a box with screws.

Length of strap	12	18	24	36
Width of door leaf	3"	3"	3"	4"
Length of jamb leaf	7"	7"	7"	8"
Width of jamb leaf	2 ⁵ / ₈ "	2 ⁵ / ₈ "	2 ⁵ / ₈ "	3 ¹ / ₂ "
Gauge of metal	.164	.164	.164	.197
Number of holes	10	11	11	14
Jamb leaf screw size	1 ¹ / ₂ x 14	1 ¹ / ₂ x 14	1 ¹ / ₂ x 14	1 ¹ / ₂ x 14
Carriage bolt size	2 ¹ / ₂ x 5 ⁵ / ₁₆	2 ¹ / ₂ x 5 ⁵ / ₁₆	2 ¹ / ₂ x 5 ⁵ / ₁₆	2 ¹ / ₂ x 5 ⁵ / ₁₆
Weight per box, steel, lbs.	7 ¹ / ₄	9 ³ / ₄	10 ¹ / ₂	19 ¹ / ₂

Full Mortise Hinges

PLAIN BEARING • REGULAR WEIGHT • BROAD WIDTH



STEEL—WITHOUT SCREWS
LOOSE STEEL PIN

1804

STEEL—WITH SCREWS
LOOSE STEEL PIN

WS 1804
GOVT. #2176



STEEL—WITHOUT SCREWS
RIVETED STEEL PIN

1808

STEEL—WITH SCREWS
RIVETED STEEL PIN

WS 1808

PLAIN STEEL FINISH
FIVE KNUCKLES
BRASS PIN AVAILABLE (SPECIFY)
ELECTROGALVANIZED (CP) OR HOT DIPPED
GALVANIZED (G) FINISH AVAILABLE
(SPECIFY)

Size Open	Gauge of Metal	Without Screws			With Screws			
		Pair in a Box	Pair in a Carton	Carton Weight—lbs.	Screw Information	Pair in a Box	Pair in a Carton	Carton Weight—lbs.
2 x 2	.080	10	100	36	4- $\frac{3}{4}$ x 7	5	100	38
2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	.089	10	100	45	4- $\frac{3}{4}$ x 8	5	100	50
3 x 3	.090	5	50	31	6-1 x 8	1	50	32
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	.104	5	50	50	6-1 x 9	1	50	51
4 x 4	.104	1	25	30	8-1 x 9	1	25	32
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	.134	1	25	51 $\frac{1}{4}$	8-1 $\frac{1}{4}$ x 12	1	20	45
5 x 5	.146	1	20	55	10-1 $\frac{1}{4}$ x 12	1	20	44 $\frac{1}{2}$
6 x 6	.160	1	10	43	10-1 $\frac{1}{2}$ x 14	1	10	25

Hager

EVERYTHING HINGES ON HAGER

67

Welding Hinges

EXTRA HEAVY • BLANK (NO HOLES)

1850

GOV'T. #2172

STEEL

RIVETED STEEL PIN

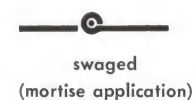
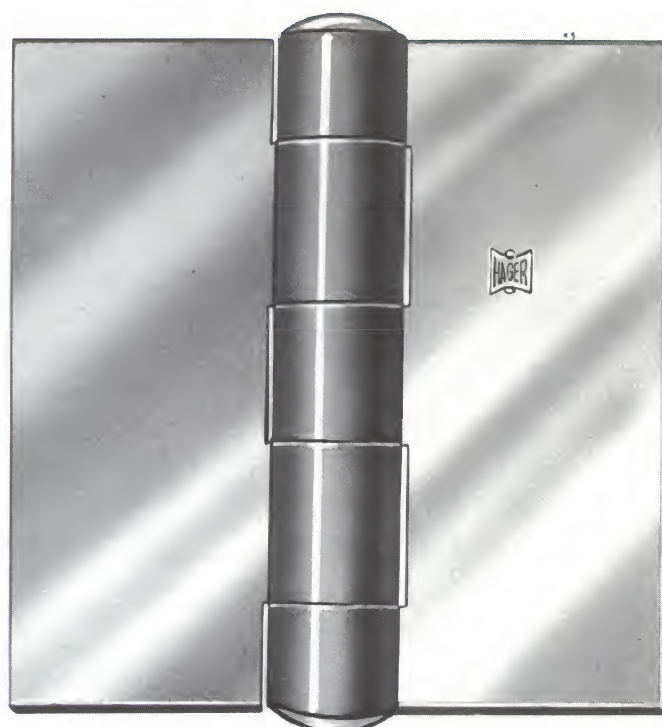
1850LP

GOV'T. #2172E

STEEL

LOOSE STEEL PIN

BLANK
FIVE KNUCKLES



Regularly furnished flat back unless otherwise specified.

Can also be supplied with screw holes if specified.

Brass pins also available if specified.

Size Open	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4	4½ x 4½	5 x 5	6 x 6
Gauge of Metal	104	.119	.130	.146	.160	.180	.190	.203
Pair in a Box	5	5	5	5	5	5	—	—
Pair in a Carton	100	100	50	50	20	20	5	5
Carton Weight—lbs.	36	63	50	80	40	54	17	29

Welding Hinges

REGULAR WEIGHT • BLANK (NO HOLES)



STEEL

NH 1804

LOOSE STEEL PIN

SWAGED



STEEL

NHFS 1804

LOOSE STEEL PIN

FLAT BACK

STEEL

NH 1808

RIVETED STEEL PIN

SWAGED

STEEL

NHFS 1808

RIVETED STEEL PIN

FLAT BACK

PLAIN STEEL FINISH
FIVE KNUCKLES
BRASS PINS AVAILABLE (SPECIFY)
BULK PACKED

Special holes, widths, or bends available if specified


flat back
(surface application)


swaged
(mortise application)

SIZE OPEN (INCHES)	2 x 2	2½ x 2½	3 x 3	3½ x 3½	4 x 4	4½ x 4½	5 x 5	6 x 6
Gauge of metal	.080	.089	.090	.104	.104	.134	.146	.160
Weight per Pair, lbs.	¼	½	¾	1	1⅛	2	3	4

Full Mortise Hinges

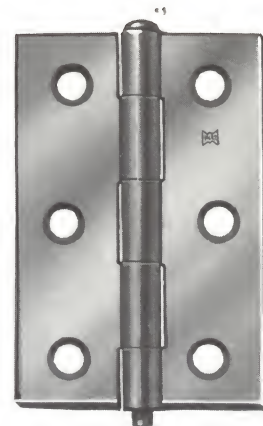
PLAIN BEARING • LIGHT WEIGHT • NARROW WIDTH

1840

STEEL
LOOSE STEEL PIN

RC 1840

STEEL—ROUND CORNERS ★
LOOSE STEEL PIN

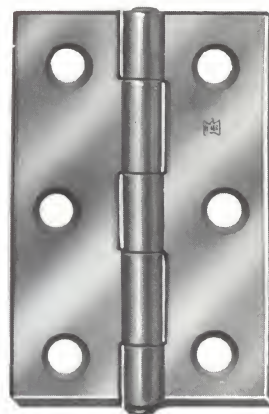


1838

STEEL
RIVETED STEEL PIN

RC 1838

STEEL—ROUND CORNERS ★
RIVETED STEEL PIN



Plain steel finish

Regularly packed 10 pair per box without screws.

Also available not swaged (flat back) for surface application (specify FS)

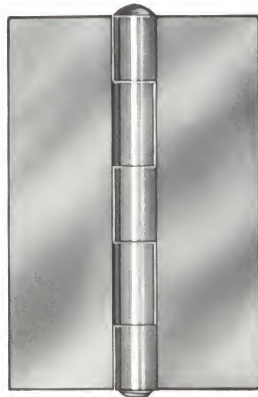
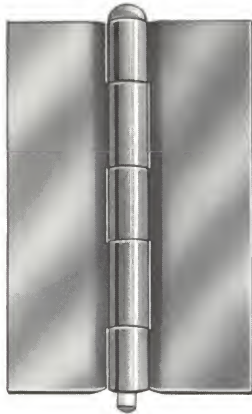
Also available electrogalvanized (CP) or hot dipped galvanized (G) with brass pins (these are packed with screws).

★ Available only in 2½" size.

Size		Gauge of Metal	Without Screws		Galvanized—Brass Pin		
Length	Width		Pair in a Carton	Carton Weight—lbs.	Screw Information	Pair in a Carton	Carton Weight—lbs.
1	1	.050	600	25	½ x 3	600	27¼
1½	1⅝	.050	300	26	⅝ x 5	300	24¾
2	1⅞/16	.062	300	46	¾ x 6	300	43¼
2½	1 11/16	.062	300	61	¾ x 6	300	63¾
3	2	.074	200	68	¾ x 7	200	70
3½	2⅞/16	.074	50	25	¾ x 8	50	25½
4	3	.074	50	36	1 x 9	60	36

Welding Hinges

BLANK (NO HOLES) • NARROW WIDTH • PLAIN BEARING



STEEL
LOOSE STEEL PIN

NH 1840
SWAGED

STEEL
LOOSE STEEL PIN

NHFS 1840
FLAT BACK

STEEL
RIVETED STEEL PIN

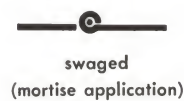
NH 1838
SWAGED

STEEL
RIVETED STEEL PIN

NHFS 1838
FLAT BACK

PLAIN STEEL FINISH
BRASS PINS AVAILABLE
BULK PACKED

Special holes, widths, or bends available if specified



Height (inches)	1	1½	2	2½	3	3½	4
Width (inches)	1	1¾	1⅞	1⅞	2	2⅞	2⅞
No. of knuckles	3	5	5	5	5	5	5
Gauge of metal	.050	.050	.062	.062	.074	.074	.074
Weight per 100 pr.	4	8	15	20	34	50	72

Butt Hinges

MEDIUM WEIGHT • STEEL • FULL MORTISE

1800

RIVETED STEEL PIN
WITHOUT SCREWS

1800G

GALVANIZED—WITH SCREWS
RIVETED BRASS PIN

NH 1800

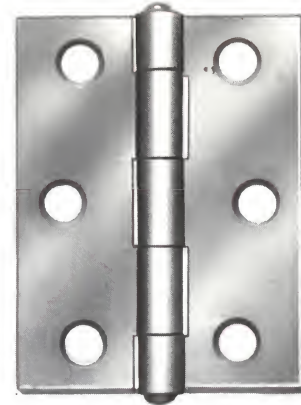
NO HOLES—SWAGED
RIVETED STEEL PIN

NHFS 1800

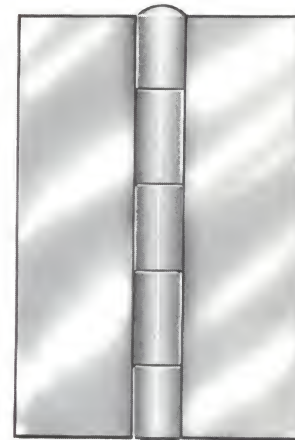
NO HOLES—FLAT BACK
RIVETED STEEL PIN

BLANK HINGES BULK PACKED

Height	1	1½	2	2½	3	3½
Width	13/16	1½	1 11/16	1 7/8	2 3/16	2½
Gauge of Metal	.056	.065	.074	.075	.074	.087
Screw Information	4-5/8 x 5	4-3/4 x 6	4-3/4 x 7	6-3/4 x 7	6-3/4 x 8	6-1 x 9
Pair in a Box	10	10	10	10	10	10
Pair in a Carton	100	100	100	100	100	100
Weight per Carton	5	11½	19	32	45	60




NARROW



NARROW

 flat back
(surface application)

 swaged
(mortise application)

1834

LOOSE STEEL PIN
WITHOUT SCREWS

BROAD

Size Open	2 x 2	2½ x 2½	3 x 3
Gauge of Metal	.062	.062	.074
Screw Information	4-3/4 x 6	6-3/4 x 6	6-3/4 x 7
Pair in a Box	10	10	10
Pair in a Carton	100	100	100
Weight per Carton	19	30	60

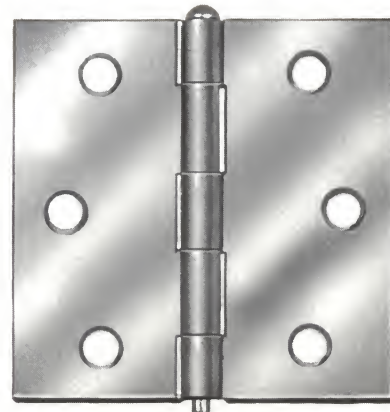
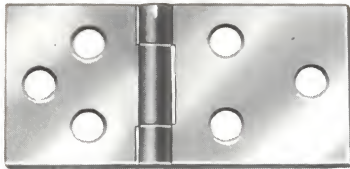


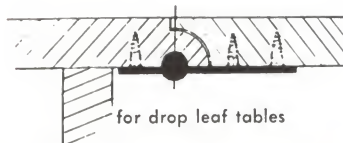
Table Hinges

STEEL



FLUSH RIVETED PIN
SWAGED

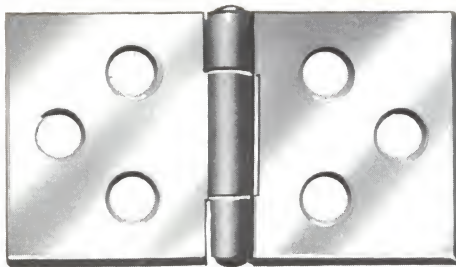
1810



THREE KNUCKLES
REVERSE COUNTERSUNK
PLAIN FINISH

WITHOUT SCREWS
10 PAIR IN A BOX

Size (Joint Length)	Width Open	Long Leaf Width	Short Leaf Width	Gauge of Metal	Screws	Pairs in Carton	Weight of Carton
1	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	.074	$\frac{3}{4} \times 6$	100	12 $\frac{1}{2}$
1 $\frac{1}{4}$	2 $\frac{3}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	.074	$\frac{3}{4} \times 6$	100	21 $\frac{1}{2}$
1 $\frac{1}{2}$	3 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$	.074	$\frac{3}{4} \times 6$	100	33



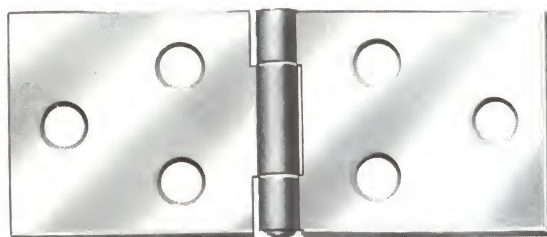
WIDE

RIVETED PIN
SWAGED

1816

RIVETED PIN
FLAT BACK

FS 1816



EXTRA WIDE

RIVETED PIN
SWAGED

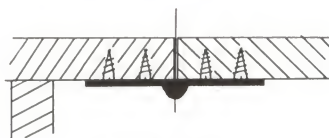
1814

RIVETED PIN
FLAT BACK

FS 1814

LOOSE BENT PIN
SWAGED

1813



FS 1814 illust.

THREE KNUCKLES
PLAIN FINISH

10 PAIR IN A BOX
AVAILABLE WITHOUT HOLES
WITHOUT SCREWS OR WITH SPECIAL HOLES

Size (Joint Length)	Width Open #1816	Width Open #1814	Gauge of Metal	Screws	Pair in a Carton	Wt. of Carton #1816	Wt. of Carton #1814
1	2	2 $\frac{7}{8}$	.074	6- $\frac{3}{4}$ x 6	100	10	13 $\frac{1}{2}$
1 $\frac{1}{4}$	2 $\frac{5}{16}$	3	.074	6- $\frac{3}{4}$ x 6	100	15	19
1 $\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{7}{16}$	.074	6- $\frac{3}{4}$ x 8	100	19 $\frac{1}{2}$	24
2	3 $\frac{11}{16}$	4 $\frac{3}{8}$	.074	6- $\frac{3}{4}$ x 8	100	39	43

Continuous Hinges

WITH HOLES • FLAT BACK (NOT SWAGED)

9000
SERIES

STEEL
STEEL PIN

8000
SERIES

BRASS
BRASS PIN

Steel and Brass available in Bright Brass, Nickel, Chrome, and Dull Bronze Finishes • Packed with screws.
Holes spaced 1 $\frac{7}{8}$ " apart and countersunk for No. 4 or No. 6 Flat Head Wood Screws.
Also available unfinished without screws.

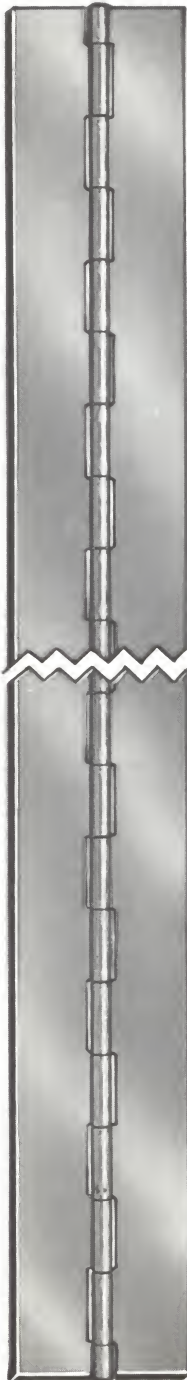


Sizes Available			
Steel		Brass	
.045" material 1/2" knuckles .090" pin	.062" material 1" knuckles .125" pin	.045" material 1/2" knuckles .090" pin	.062" material 1" knuckles .125" pin
1 $\frac{1}{16}$ " x 18"	1 $\frac{1}{2}$ " x 48"	1 $\frac{1}{2}$ " x 72"	1 $\frac{1}{2}$ " x 72"
1 $\frac{1}{16}$ " x 36"	1 $\frac{1}{2}$ " x 72"	2" x 72"	2" x 72"
1 $\frac{1}{16}$ " x 48"	1 $\frac{3}{4}$ " x 72"		
1 $\frac{1}{16}$ " x 72"	2" x 72"		
1 $\frac{1}{4}$ " x 72"	2" x 84"		
1 $\frac{1}{2}$ " x 48"			
1 $\frac{1}{2}$ " x 72"			
2" x 72"			

When ordering, specify series number and metal thickness desired, example #9045 (steel material .045" thick). Also specify width open desired and length desired, example 1 1/16" #9045 x 36" lengths.

Continuous Hinges

BLANK • FLAT BACK (NOT SWAGED)



STEEL

STEEL PIN

NH 9000

SERIES

.035" material ¼" knuckles .090" pin	.045" material ½" knuckles .090" pin	.062" material 1" knuckles .125" pin	.075" material 2" knuckles .250" pin	.125" material 2" knuckles .375" pin
1 1/16" x 84"	1 1/16" x 84"	1 1/2" x 84"	2" x 96"	3" x 84"
1 1/4" x 84"	1 1/4" x 84"	1 3/4" x 84"	2 1/2" x 96"	3 1/2" x 96"
1 1/2" x 84"	1 1/2" x 84"	2" x 84"	3" x 96"	4" x 96"
1 3/4" x 84"	1 3/4" x 84"	3 1/2" x 72"		5" x 96"
2" x 96"	2" x 84"			

STAINLESS STEEL

STAINLESS PIN

NH SS 9000

SERIES

.040" material 5/8" knuckles .090" pin	.062" material ½" knuckles .125" pin
1 1/2" x 72"	1 1/2" x 72"
	2" x 72"

Also available with special holes and special lengths if specified.

Packed bulk in bundles.

When ordering, specify series number and metal thickness desired; example #NH 9045 (steel material .045" thick). Also specify width open desired and length desired; example 1 3/4" NH 9045 x 84" lengths.

Hager

EVERYTHING HINGES ON HAGER

75

Butt Hinges

STEEL

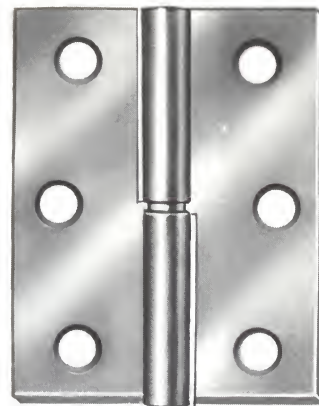
1806

BROAD LOOSE JOINT

1802

NARROW LOOSE JOINT

COLLAR ON PIN
TWO KNUCKLES
SLIP JOINT
HANDED—SPECIFY DESIRED HAND
WITHOUT SCREWS
BULK PACKED

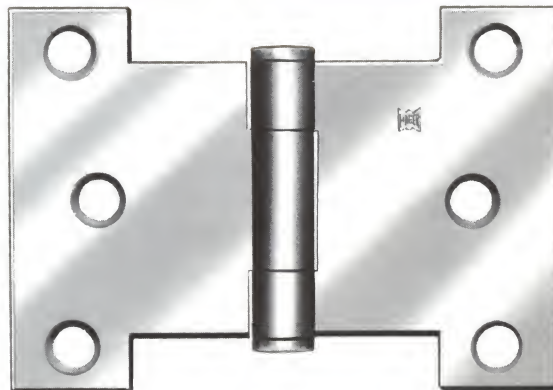


Size (Joint Length)	Width #1806	Width #1802	Gauge of Metal #1806	Gauge of Metal #1802	Screws	Wt. Per 100 Pair
2	—	1½	—	.062	4-¾ x 7	27½
2½	—	1¾	—	.075	6-¾ x 8	27½
3	3	2	.089	.089	6-¾ x 8	62½
3½	3½	—	.119	—	6-1 x 9	85

1838

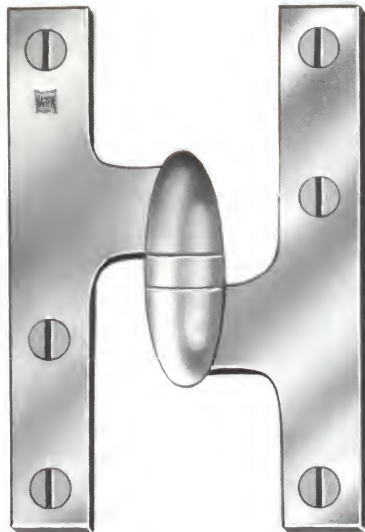
PARLIAMENT HINGES

WIDE THROW
THREE KNUCKLES
BUTTON TIPS
WITH SCREWS



Width Open (inches)	3	4	5	6	8
Gauge of Metal	.089	.104	.104	.104	.130
Length of Joint	1½	1¾	1¾	1¾	2¼
Screws	6-7/8 x 8	6-1 x 9	6-1 x 9	6-1 x 10	6-1¼ x 12
Pair in a Box	10	5	5	5	5
Pair in a Carton	100	50	50	50	50
Weight per Carton	38	28	37	54	98

Cabinet Hinges

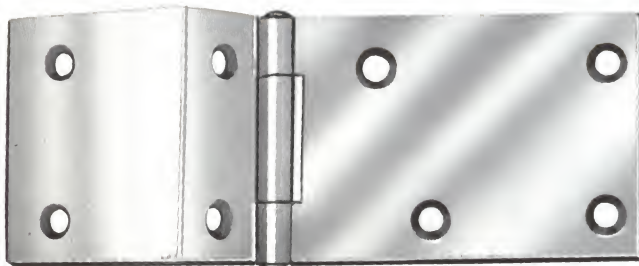


STEEL
STEEL PIN

1201

OLIVE KNUCKLE
FULL MORTISE
HANDED—SPECIFY
HIGHLY POLISHED
BRONZE BEARING
WITH SCREWS
ONE PAIR IN A BOX

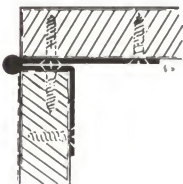
Size (inches) — 3" x 2 1/4"
Gauge of Metal — .134"
Screw Size — 1 x 8
Weight Per Pair — 8 ounces



STEEL
RIVETED PIN

1820
*GOVT. #2282

FOR CHESTS AND CABINETS
FIVE KNUCKLES
AVAILABLE IN POPULAR FINISHES
WITH SCREWS
10 PAIR IN A BOX



Size Joint x Offset	Gauge of Metal	Screws	Weight Per Pair
1 1/2" x 1/2"	.077	7-1/2 x 7	1/3
1 1/2" x 5/8"	.077	7-5/8 x 7	1/3
1 1/2" x 3/4"	.077	8-5/8 x 7	1/3
* 2" x 3/4"	.077	8-5/8 x 8	2/3
2" x 7/8"	.077	8-3/4 x 8	2/3

Cabinet Hinges

FULL MORTISE • LIGHTWEIGHT • BROAD

1289

GOV'T. #2263

STEEL

STEEL PIN

1589

GOV'T. #2262

BRASS

BRASS PIN

FIVE KNUCKLES
BUTTON TIPS
WITH SCREWS



Size Open (inches)	2" x 2"	2½" x 2"	2½" x 2½"	3" x 2½"	3" x 3"
Gauge of Metal	.062	.065	.065	.074	.074
Screw Information	4-¾ x 6	6-¾ x 6	6-¾ x 6	6-¾ x 7	6-¾ x 7
Pair Per Box	10	10	10	5	5
Pair Per Carton	100	100	100	100	100
Weight Per Carton, Lbs.	23	25½	33	48	55½

892

STEEL

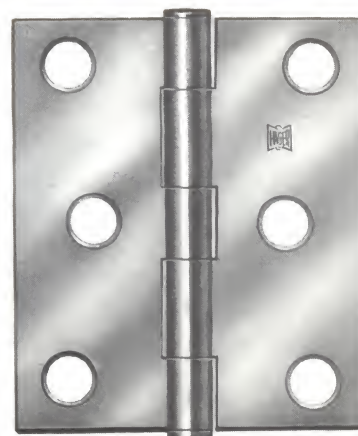
STEEL PIN

1592

BRASS

BRASS PIN

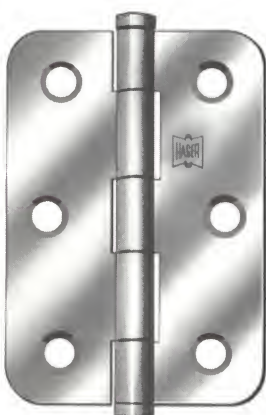
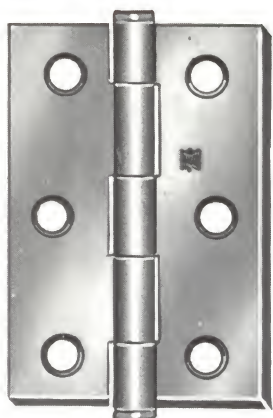
EXTRA LIGHT
FIVE KNUCKLES
BUTTON TIPS
WITH SCREWS



Size Open (inches)	2" x 1¾"	2" x 2"	2½" x 2"	2½" x 2½"
Gauge of Metal	.047	.047	.047	.047
Screw Information	4-¾ x 5	4-¾ x 6	6-¾ x 6	6-¾ x 6
Pair Per Box	10	10	10	10
Pair Per Carton	100	100	100	100
Weight Per Carton, Lbs.	15¼	22¾	21¾	25½

Cabinet Hinges

FULL MORTISE • LIGHTWEIGHT • NARROW



FIVE KNUCKLES
WITH SCREWS

STEEL BUTTON TIP STEEL PIN	1295 GOV'T. #2267
STEEL LOOSE OVAL HEAD PIN	1286
STEEL RIVETED STEEL PIN	1284
BRASS BUTTON TIP BRASS PIN	1595 GOV'T. #2266
STEEL BUTTON TIP STEEL PIN	RC 1295
STEEL LOOSE OVAL HEAD PIN	RC 1286
STEEL RIVETED STEEL PIN	RC 1284
BRASS BUTTON TIP BRASS PIN	RC 1595

Steel bonderized and prime coated hinges carry the regular plated class number with the finish symbol "PT" as a suffix, i.e., 1295-PT.

All sizes packed 10 pair per box with slotted head screws.

Round corners only available in 2½" size.

Size Open (inches)	1-1/2" x 1-7/16"	2" x 1-9/16"	2-1/2" x 1-11/16"	3" x 2"
Gauge of Metal	.047	.062	.065	.074
Number of Holes	4	4	6	6
Screw Sizes	5/8 x 5	3/4 x 6	3/4 x 6	3/4 x 7
Pair Per Carton	100	100	100	100
Weight Per Carton, lbs.	10¾	20	26½	41

Hager

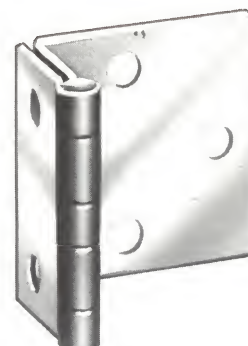
EVERYTHING HINGES ON HAGER

79

Cabinet Hinges

FOR FLUSH DOORS

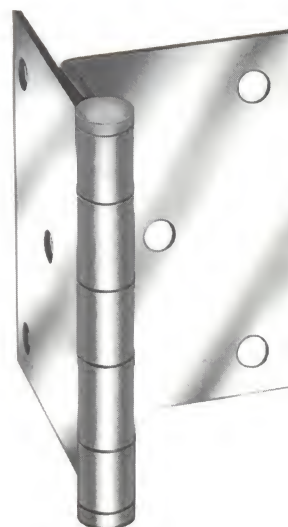
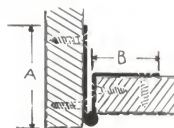
1822	STEEL RIVETED STEEL PIN
1822½	STEEL LOOSE STEEL PIN
1522	BRASS RIVETED BRASS PIN
1522½	BRASS LOOSE BRASS PIN



SPECIFY DOOR THICKNESS FIVE KNUCKLES WITH SCREWS 10 PAIR PER BOX 100 PAIR PER CARTON *ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)	Size	Length	Door Thickness	Gauge	Dimensions		Screw Information	Weight Per Carton, lbs.
					A	B		
	*1½"		¾"	.049	¾"	17/16"	6-¾ x 6	21½
	1½"		1"	.049	¾"	1⅞"	6-¾ x 6	23
	2½"		¾"	.074	¾"	1¼"	7-¾ x 6	49
	2½"		1"	.074	¾"	1"	7-¾ x 6	49
	2½"		1⅞"	.074	¾"	7/8"	7-¾ x 6	49

1821	STEEL
1521	BRASS

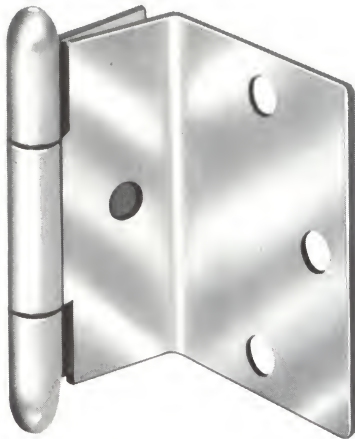
MAY BE USED WITH RECESSED DOOR.
FRAME LEAF FLAT BACK
FIVE KNUCKLES
WITH SCREWS
10 PAIR PER BOX
100 PAIR PER CARTON
SPECIFY DOOR THICKNESS



Size	Length	Door Thickness	Gauge	Dimensions		Screw Information	Weight Per Carton, lbs.
				A	B		
2½"		¾"	.074	2⅞"	1½"	¾ x 6	60
2½"		1"	.074	2⅞"	1¼"	¾ x 6	60
2½"		1⅞"	.074	2⅞"	1⅞"	¾ x 6	60

Cabinet Hinges

FOR FLUSH DOORS

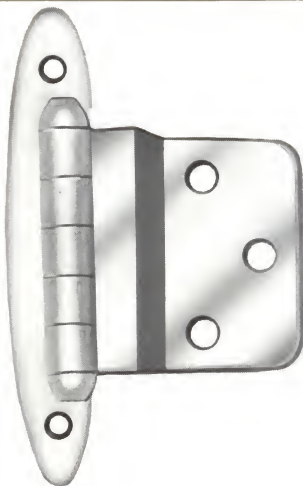


STEEL
STEEL PIN

1844

BULLET SHAPED "BARREL COVERS"
BARREL COVERS OF ALUMINUM (SPECIFY ALD)
BARREL COVERS OF BRASS (SPECIFY FINISH)
STEEL LEAVES HAVE ENAMEL FINISH
THREE KNUCKLES
10 PAIR PER BOX WITH SCREWS
SPECIFY DOOR THICKNESS

Size (Length)	Door Thickness	Gauge of Metal	Screw Information	Pair Per Carton	Weight Per Carton, lbs.
2"	3/4"	.062	6-5/8 x 6	100	34
2"	1"	.062	6-5/8 x 6	100	34
2"	1 1/8"	.062	6-5/8 x 6	100	34



STEEL
STEEL PIN

1012

FIVE KNUCKLES
SEMI-CONCEALED
10 PAIR PER BOX
WITH SCREWS
SPECIFY DOOR THICKNESS

Jamb Leaf Length	Door Thickness	Gauge of Metal	Screw Information	Pair Per Carton	Weight Per Carton, lbs.
2 3/4"	3/8"	.050	5-5/8 x 5	100	20
2 3/4"	1/2"	.050	5-5/8 x 5	100	20
2 3/4"	3/4"	.050	5-5/8 x 5	100	20

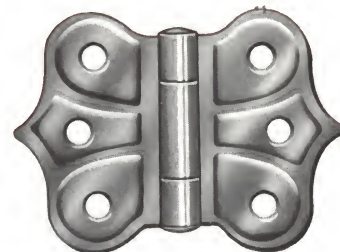
Cabinet Hinges

FOR FLUSH DOORS • ORNAMENTAL

1000

STEEL
RIVETED STEEL PIN

THREE KNUCKLES
1½" JOINT
2¾" OPEN WIDTH
6-⅝ x 5 O. H. SCREWS
10 PAIR PER BOX
100 PAIR PER CARTON
WEIGHT PER CARTON—19½ LBS.



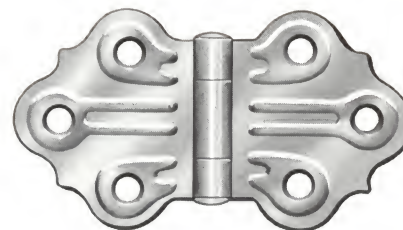
1024

STEEL
RIVETED STEEL PIN

1524

BRASS
RIVETED BRASS PIN

THREE KNUCKLES
1¼" JOINT
2¾" OPEN WIDTH
6-⅝ x 5 O. H. SCREWS
10 PAIR PER BOX
100 PAIR PER CARTON
WEIGHT PER CARTON—17½ LBS.



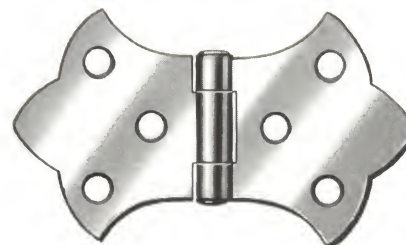
1032

STEEL
RIVETED STEEL PIN

1532

BRASS
RIVETED BRASS PIN

THREE KNUCKLES
1" JOINT
3-1/16" OPEN WIDTH
6-⅝ x 5 F. H. SCREWS
10 PAIR PER BOX
100 PAIR PER CARTON
WEIGHT PER CARTON—17 LBS.

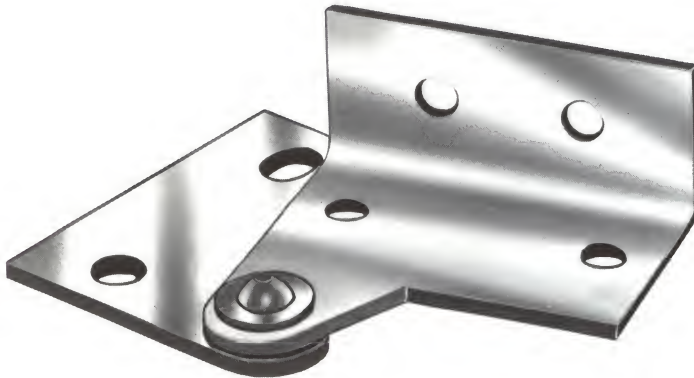


Pivot Hinges

FOR FLUSH RECESSED DOORS

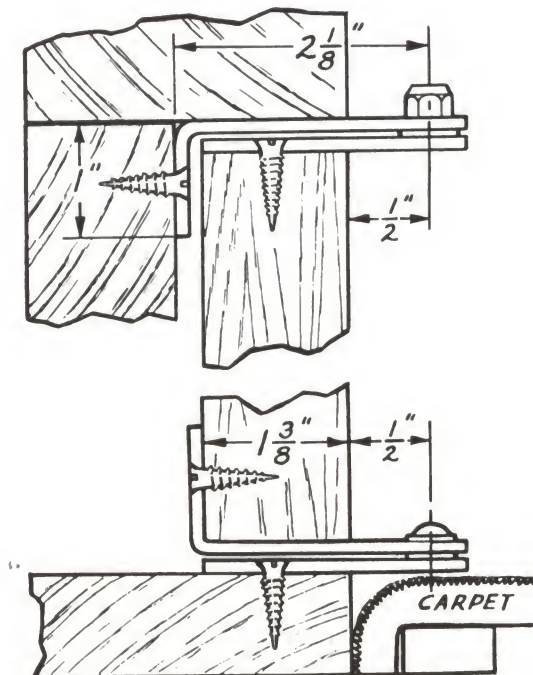
STEEL

1041



BOTTOM PIVOT SHOWN

HANDED—SPECIFY
FOR 1 3/4" WARDROBE DOORS
NYLON BEARING .035"
NO VERTICAL STYLE REQUIRED
ONLY PIVOT SHOWS WHEN DOOR CLOSED
ELONGATED SCREW HOLE IN TOP HEADER LEAF AND BOTTOM
THRESHOLD LEAF PERMIT EASY ADJUSTMENT FOR
VERTICAL ALIGNMENT
BOTTOM PIVOT WITH RIVETED PIN
TOP PIVOT WITH MACHINE SCREW AND ELASTIC STOP NUT
TO PERMIT EASY INSTALLATION
FURNISHED ONLY IN PRIME COATED FINISH



Size (Inches)	2 1/2" Width
Projection	2 1/8" From Back of Header Leaf
Gauge of Metal	.134"
Screw Size	1 x 9 F. W. H. S.
Weight Per Pair, lbs.	1

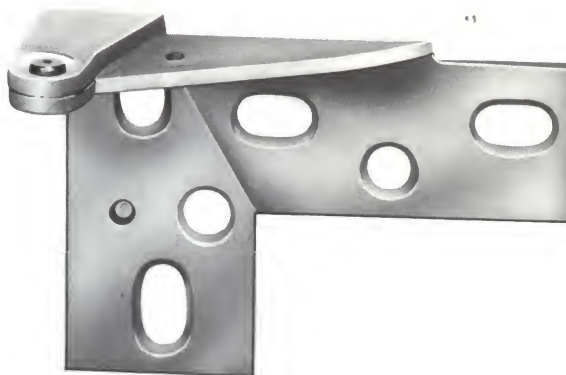
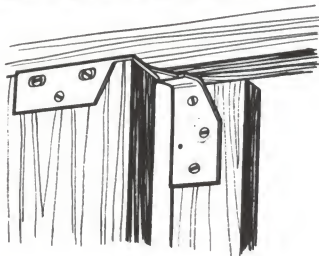
Pivot Hinges

FOR FLUSH OVERLAY DOORS

1043

STEEL
RIVETED PIN

FOR $\frac{3}{4}$ " OVERLAPPING DOORS
NO VERTICAL STILE REQUIRED
ONLY PIVOT SHOWS WHEN DOOR CLOSED
AVAILABLE IN POPULAR FINISHES
10 PAIR PER BOX POLY PACKED
WITH SCREWS
100 PAIR PER CARTON—WEIGHT 23 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

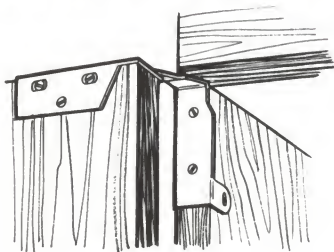


Top Right Hand Hinge Illustrated
(for left hand door)

1044

STEEL
RIVETED PIN

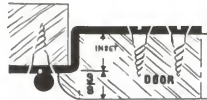
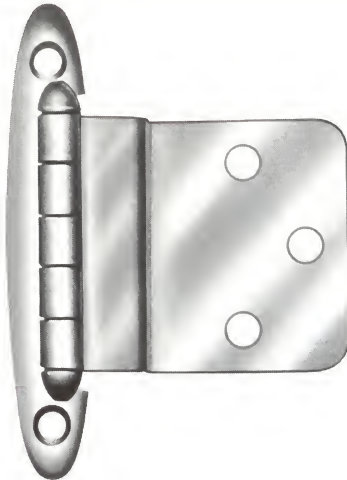
FOR $\frac{3}{4}$ " OVERLAPPING DOOR
NO HORIZONTAL STILE REQUIRED
ONLY PIVOT SHOWS WHEN DOOR CLOSED
AVAILABLE IN POPULAR FINISHES
10 PAIR PER BOX POLY PACKED
WITH SCREWS
100 PAIR PER CARTON—WEIGHT 25 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



Top Right Hand Hinge Illustrated
(for left hand door)

Cabinet Hinges

FOR LIPPED DOORS



STEEL
STEEL PIN

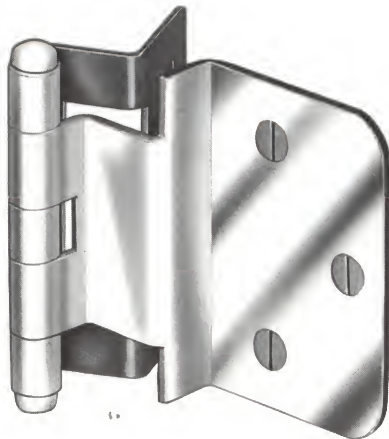
1006

BRASS
BRASS PIN

1506

FIVE KNUCKLES
SEMI-CONCEALED
10 PAIR PER BOX
WITH SCREWS
*AVAILABLE IN BILDORS PAK
(SEE DIVIDER PAGE)
SPECIFY INSET

Jamb Leaf Length	Inset	Gauge of Metal	Screw Information	Pair Per Carton	Weight Per Carton, lbs.
*2 $\frac{3}{4}$ "	$\frac{3}{8}$ "	.050	5- $\frac{5}{8}$ x 5	100	18 $\frac{1}{2}$
2 $\frac{3}{4}$ "	$\frac{1}{2}$ "	.050	5- $\frac{5}{8}$ x 5	100	20
2 $\frac{3}{4}$ "	$\frac{3}{4}$ "	.050	5- $\frac{5}{8}$ x 5	100	20



STEEL
STEEL PIN

1026

FIVE KNUCKLES
ONLY KNUCKLES VISIBLE
10 PAIR PER BOX
WITH SCREWS
*AVAILABLE IN BILDORS PAK
(SEE DIVIDER PAGE)

Jamb Leaf Length	Inset	Gauge of Metal	Screw Information	Pair Per Carton	Weight Per Carton, lbs.
2"	$\frac{3}{8}$ "	.050	5- $\frac{5}{8}$ x 5	100	25

Hager

EVERYTHING HINGES ON HAGER

85

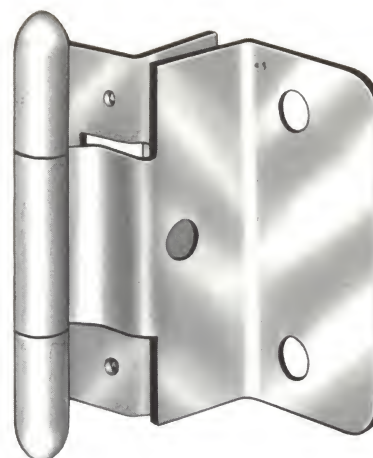
Cabinet Hinges

FOR LIPPED DOORS

1045

STEEL
STEEL PIN

BULLET SHAPED "BARREL COVERS"
BARREL COVERS OF ALUMINUM (SPECIFY ALD)
BARREL COVERS OF BRASS (SPECIFY FINISH)
STEEL LEAVES HAVE ENAMEL FINISH
THREE KNUCKLES
10 PAIR PER BOX WITH SCREWS
SPECIFY INSET

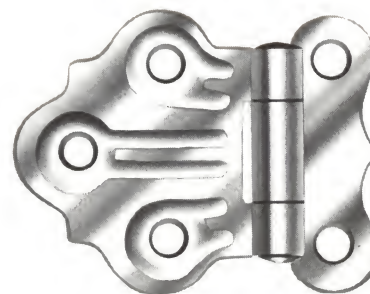


Length of Joint	Inset	Gauge of Metal	Screw Information	Pair Per Carton	Weight Per Carton, lbs.
2"	3/8"	.062	5-5/8 x 5	100	34
2"	3/4"	.062	5-5/8 x 5	100	34

1005

STEEL
STEEL PIN

THREE KNUCKLES
ORNAMENTAL
FOR 3/4" LIP
1 1/4" JOINT
6-5/8 x 5 O. H. SCREWS
10 PAIR PER BOX
100 PAIR PER CARTON
WEIGHT PER CARTON—16 LBS.



Cabinet Hardware

PULLS



BRASS

1077

GOVT. #1306

ALUMINUM

ALD 1077

AVAILABLE IN POPULAR FINISHES
POLY PACKED WITH SCREWS
FOR 3/4" TO 1 1/4" WOOD
LENGTH OVERALL—4"
SCREW HOLE SPACING—3 1/2"
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 15 LBS.



BRASS

1078

ALUMINUM

ALD 1078

AVAILABLE IN POPULAR FINISHES
POLY PACKED WITH SCREWS
FOR 3/4" TO 1 1/4" WOOD
LENGTH OVERALL—3 1/2"
SCREW HOLE SPACING—3"
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 16 LBS.



BRASS

1079

ALUMINUM

ALD 1079

AVAILABLE IN POPULAR FINISHES
POLY PACKED WITH SCREWS
FOR 3/4" TO 1 1/4" WOOD
LENGTH OVERALL—2 3/4"
SCREW HOLE SPACING—2 1/4"
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 11 LBS.

Hager

EVERYTHING HINGES ON HAGER

87

Cabinet Hardware

PULLS, KNOBS, AND CUPBOARD TURNS

1014

CAST ZINC

AVAILABLE IN POPULAR FINISHES
POLY PACKED WITH SCREWS FOR $\frac{3}{4}$ " WOOD
LENGTH OVERALL— $4\frac{1}{8}$ "
SCREW HOLE SPACING—3"
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT $7\frac{1}{2}$ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



1013

**CONCAVE
CAST ZINC**

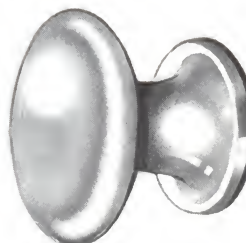
AVAILABLE IN POPULAR FINISHES
POLY PACKED WITH SCREWS FOR $\frac{3}{4}$ " WOOD
DIAMETER— $1\frac{1}{2}$ INCHES
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 10 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



1016

**CONVEX
STEEL**

AVAILABLE IN BRIGHT CHROME (CHR) ONLY
POLY PACKED WITH SCREWS FOR $\frac{3}{4}$ " WOOD
DIAMETER—1 INCH
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT— $6\frac{3}{4}$ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



1430

GOVT. #F1085

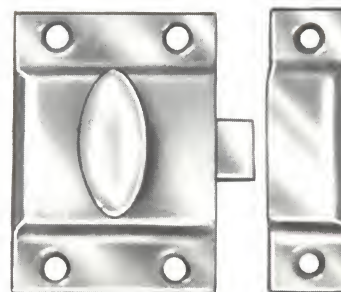
SMALL

STEEL

1431

**LARGE
STEEL**

AVAILABLE IN DULL BRASS OR NICKEL FINISH
POLY PACKED WITH SCREWS
SIZE NO. 1430— $1\frac{3}{4}$ " x $1\frac{3}{4}$ "
NO. 1431— $2\frac{1}{4}$ " x $2\frac{1}{4}$ "
10 ONLY PER BOX
100 ONLY PER CARTON
WEIGHTS PER CARTON—NO. 1430—12 $\frac{1}{4}$ LBS.
NO. 1431—14 $\frac{3}{4}$ LBS.

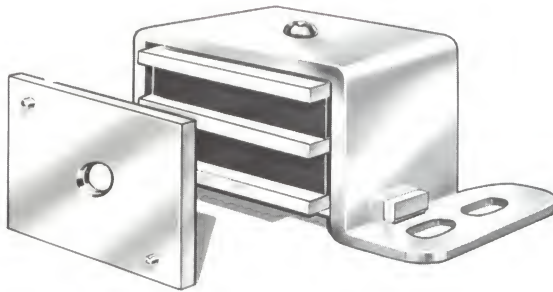


Cabinet Hardware

MAGNETIC CATCHES

HEAVY DUTY ALUMINUM CASE

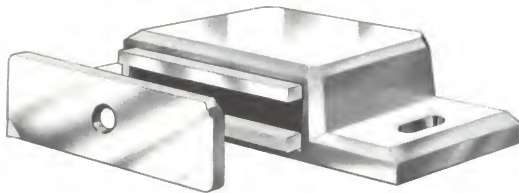
1437



DOUBLE SIDED
LIFETIME MAGNET
SELF ALIGNING
30 POUNDS PULL
SIZE—2" x 1" x 11/16"
POLY PACKED WITH SCREWS
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 16½ LBS.

MEDIUM WEIGHT TAN PLASTIC CASE

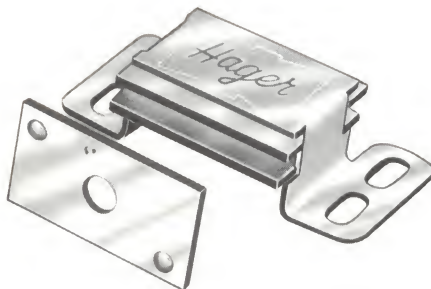
1438



LIFETIME MAGNET
SELF ALIGNING
15 POUNDS PULL
SIZE—2" x 15/16" x 1/2"
POLY PACKED WITH SCREWS
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 11 LBS.

LIGHTWEIGHT ALUMINUM CASE

1439



DOUBLE SIDED
LIFETIME MAGNET
SELF ALIGNING
10 POUNDS PULL
SIZE—1 3/4" x 3/4" x 9/16"
POLY PACKED WITH SCREWS
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 8 1/4 LBS.

ALL CATCHES ARE ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

Cabinet Hardware

CATCHES

1432

GOV'T. #F 1072

FRICTION TYPE

STEEL

NICKEL PLATED
SPRING STEEL
POLY PACKED WITH SCREWS
25 ONLY PER BOX
200 ONLY PER CARTON—WEIGHT 7¼ LBS.

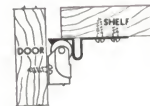
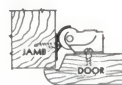
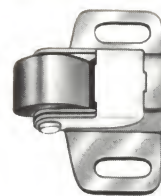
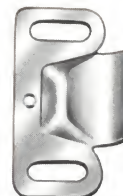
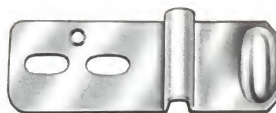


1440

SINGLE ROLLER

STEEL

JAMB AND SHELF STRIKES
RUBBER ROLLER
CADMIUM PLATED
SPRING ACTION
FLOATING FINGERS
POLY PACKED WITH SCREWS
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 7¼ LBS.

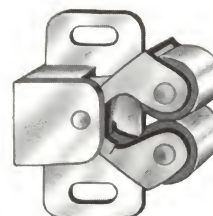


1441

DOUBLE ROLLER

STEEL

RUBBER ROLLERS
CADMIUM PLATED
SPRING ACTION
FLOATING FINGERS
POLY PACKED WITH SCREWS
25 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 5¼ LBS.



ALL CATCHES ARE ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

Forged Iron

CABINET PULLS AND LATCHES



HEART SHAPED
STEEL

5010

SKIN PACKED WITH $\frac{3}{4}$ " PYRAMID SCREWS
LENGTH OVERALL $5\frac{1}{8}$ "
SCREW HOLE SPACING $3\frac{3}{8}$ "
GAUGE OF METAL .070"
5 CARDS PER BOX
100 CARDS PER CARTON—WEIGHT $11\frac{1}{4}$ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



COLONIAL END
STEEL

5012

SKIN PACKED WITH $\frac{3}{4}$ " PYRAMID SCREWS
LENGTH OVERALL $4\frac{7}{8}$ "
SCREW HOLE SPACING $4\frac{1}{4}$ "
GAUGE OF METAL .070"
5 CARDS PER BOX
50 CARDS PER CARTON—WEIGHT 8 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



HEART SHAPED
STEEL

5011

BREAK OFF LATCH BAR FOR DOOR UP TO $1\frac{1}{8}$ "
STRIKES FOR FLUSH AND LIPPED DOORS
SKIN PACKED WITH $\frac{3}{4}$ " PYRAMID SCREWS
LENGTH OVERALL $5\frac{1}{8}$ "
SCREW HOLE SPACING $3\frac{11}{16}$ "
GAUGE OF METAL .070"
5 CARDS PER BOX
50 CARDS PER CARTON—WEIGHT 12 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

Forged Iron

CABINET HINGES AND LATCHES

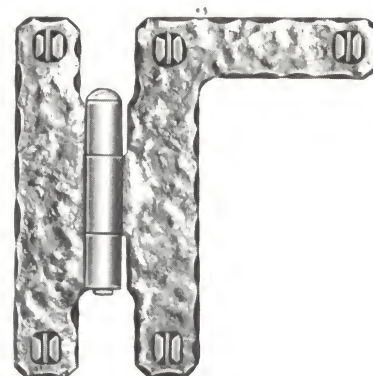
5001

FOR FLUSH DOOR
STEEL

5005

FOR $\frac{3}{8}$ " LIPPED DOOR
STEEL

THREE KNUCKLES
LOOSE PIN—REVERSIBLE
LENGTH—3"
WIDTH—2 $\frac{3}{4}$ "
GAUGE OF METAL—.065"
SKIN PACKED WITH $\frac{1}{4}$ " PYRAMID SCREWS
5 CARDS PER BOX
50 CARDS PER CARTON—WEIGHT 15 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



5003

FOR FLUSH DOOR
STEEL

5006

FOR $\frac{3}{8}$ " LIPPED DOOR
STEEL

THREE KNUCKLES
LOOSE PIN—REVERSIBLE
LENGTH—3"
WIDTH—1-7/16"
GAUGE OF METAL—.065"
SKIN PACKED WITH $\frac{1}{4}$ " PYRAMID SCREWS
5 CARDS PER BOX
100 CARDS PER CARTON—WEIGHT 25 $\frac{1}{2}$ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



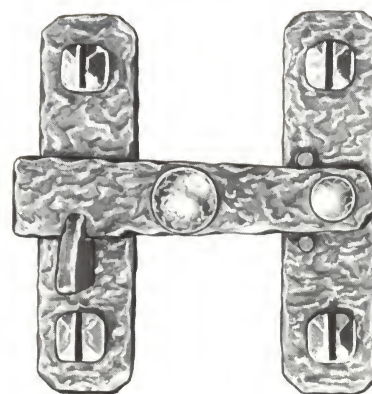
5030

FOR FLUSH DOOR
STEEL

5031

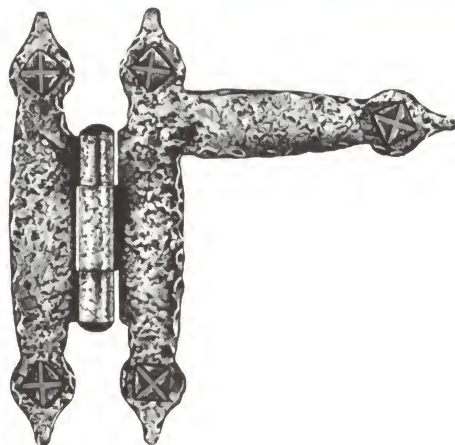
FOR $\frac{3}{8}$ " LIPPED DOOR
STEEL

RIVETED BAR
SKIN PACKED WITH $\frac{1}{4}$ " PYRAMID SCREWS
LENGTH—2 $\frac{3}{4}$ "
WIDTH—2 $\frac{3}{4}$ "
GAUGE OF METAL—.070"
5 CARDS PER BOX
100 CARDS PER CARTON—WEIGHT 17 $\frac{1}{4}$ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



Forged Iron

CABINET HINGES AND LATCHES



FOR FLUSH DOOR
STEEL

5001 1/2

FOR 3/8" LIPPED DOOR
STEEL

5005 1/2

THREE KNUCKLES

LOOSE PIN—REVERSIBLE

LENGTH—3 1/2"

WIDTH—3 1/2"

GAUGE OF METAL—.065"

SKIN PACKED WITH 3/4" PYRAMID SCREWS

5 CARDS PER BOX

50 CARDS PER CARTON—WEIGHT 15 LBS.

*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



FOR FLUSH DOOR
STEEL

5003 1/2

FOR 3/8" LIPPED DOOR
STEEL

5006 1/2

THREE KNUCKLES

LOOSE PIN—REVERSIBLE

LENGTH—3 1/2"

WIDTH—1 1/2"

GAUGE OF METAL—.065"

SKIN PACKED WITH 3/4" PYRAMID SCREWS

5 CARDS PER BOX

100 CARDS PER CARTON—WEIGHT 26 LBS.

*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



FOR FLUSH DOOR
STEEL

5030 1/2

FOR 3/8" LIPPED DOOR
STEEL

5031 1/2

RIVETED BAR

SKIN PACKED WITH 3/4" PYRAMID SCREWS

LENGTH—3 1/2"

WIDTH—2 3/4"

GAUGE OF METAL—.070"

5 CARDS PER BOX

100 CARDS PER CARTON—WEIGHT 18 LBS.

*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

HINGES AND KNOBS

5106

FOR $\frac{3}{8}$ " LIPPED DOOR

STEEL

FIVE KNUCKLES
SEMI-CONCEALED
GAUGE OF METAL—.052"
FOR $\frac{3}{4}$ " DOOR WITH $\frac{3}{8}$ " LIP
SKIN PACKED WITH $\frac{3}{4}$ " SCREWS
5 CARDS PER BOX
50 CARDS PER CARTON—WEIGHT 11½ LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



5041

LARGE—STEEL

1½" DIAMETER

5042

SMALL—STEEL

$\frac{7}{8}$ " DIAMETER

SOLID STEEL—TAPPED
SKIN PACKED WITH 1½ x 10-24 BREAK OFF SCREWS
5 CARDS PER BOX
100 CARDS PER CARTON—WEIGHT 18 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



5019

FOR FLUSH DOOR

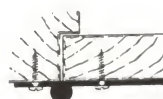
STEEL

5025

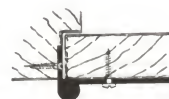
FOR $\frac{3}{8}$ " LIPPED DOOR

STEEL

THREE KNUCKLES—LENGTH 1¾"
LOOSE PIN—REVERSIBLE
STRAP WIDTH—6"
JAMB WIDTH—¾"
GAUGE OF METAL—.065"
SKIN PACKED WITH ¾" PYRAMID SCREWS
5 CARDS PER BOX
50 CARDS PER CARTON—WEIGHT 14 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)



Full surface



Half surface

Forged Iron

THUMB LATCHES, PULLS, AND LIFTS



STEEL
WITH SURFACE STRIKE

5040

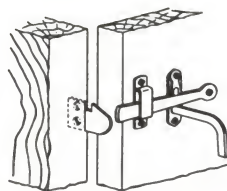
STEEL
WITH MORTISE BOX STRIKE

5040½



ONE SET PER BOX
WITH SCREWS
HANDLE LENGTH 9¼"

LATCH LENGTH 4½"
25 SETS PER CARTON
CARTON WEIGHT—30 LBS.



DOOR PULL
STEEL

5045

PACKED ONE PER BOX
WITH PYRAMID SCREWS
LENGTH OVERALL 9¼"
WIDTH 2¼"
25 PER CARTON
CARTON WEIGHT—15 LBS.



SASH LIFT
STEEL

5035

PACKED WITH ¾" PYRAMID SCREWS
LENGTH OVERALL 5"
SCREW HOLE SPACING 4"
GAUGE OF METAL .065"
5 ONLY PER BOX
100 ONLY PER CARTON—WEIGHT 20 LBS.
*ALSO AVAILABLE IN BILDORS PAK (SEE DIVIDER PAGE)

Forged Iron

FULL MORTISE • REGULAR WEIGHT • NON-TEMPLATE • STEEL

5241

PLAIN BEARING

STEEL PIN

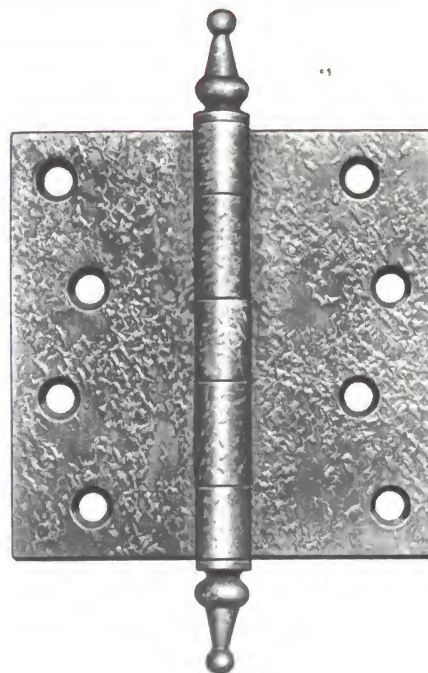
BB-5241

BALL BEARING

STEEL PIN

FIVE KNUCKLES
BUTTON TIPS ARE STANDARD
STEEPLE TIPS IF SPECIFIED
ONE PAIR IN A BOX
WITH SCREWS

Size Open	3" x 3"	3½" x 3½"	4" x 4"	4½" x 4½"
Gauge of Metal	.092"	.119"	.130"	.134"
Number of Holes	6	6	8	8
Screw Size	1 x 8	1 x 9	1 x 10	1¼ x 12
Weight per 100 Pair, lbs.	50	100	150	200



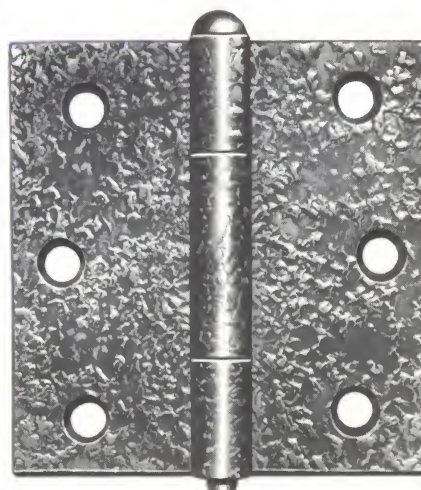
5804

PLAIN BEARING

STEEL PIN

FIVE KNUCKLES
LOOSE OVAL HEAD PIN
WITH SCREWS

Size Open	2" x 2"	2½" x 2½"	3" x 3"	3½" x 3½"
Gauge of Metal	.082"	.089"	.092"	.119"
Number of Holes	4	4	6	6
Screw Size	¾ x 7	¾ x 8	1 x 8	1 x 9
Pair Per Box	5	5	1	1
Weight Per 100 Pair, lbs.	25	35	50	100



Forged Iron

STRAP HINGES AND HINGE STRAPS



STEEL
8 3/4 INCHES **5020**

STEEL
9 INCHES **5021**

STEEL
13 1/4 INCHES **5022**

STEEL
17 1/4 INCHES **5023**

Number	Length of Strap	Length of Knuckle	Gauge of Metal	Width of Jamb Leaf	Screws	Weight Per Pair, lbs.
5020	8 3/4"	1 3/4"	.065"	1 3/16"	3/4 x 7	1/4
5021	9"	2 1/2"	.080"	1"	3/4 x 7	3/4
5022	13 1/4"	2 7/8"	.089"	1 1/2"	3/4 x 9	1 1/4
5023	17 1/4"	4"	.146"	1 3/8"	1 1/4 x 12	3 1/2

THREE KNUCKLES
LOOSE PIN
REVERSIBLE
WITH PYRAMID SCREWS
ONE PAIR IN A BOX



STRAPS ONLY

STEEL
9 INCHES **5026**

STEEL
10 INCHES **5027**

STEEL
14 1/4 INCHES **5028**

STEEL
22 1/2 INCHES **5029**

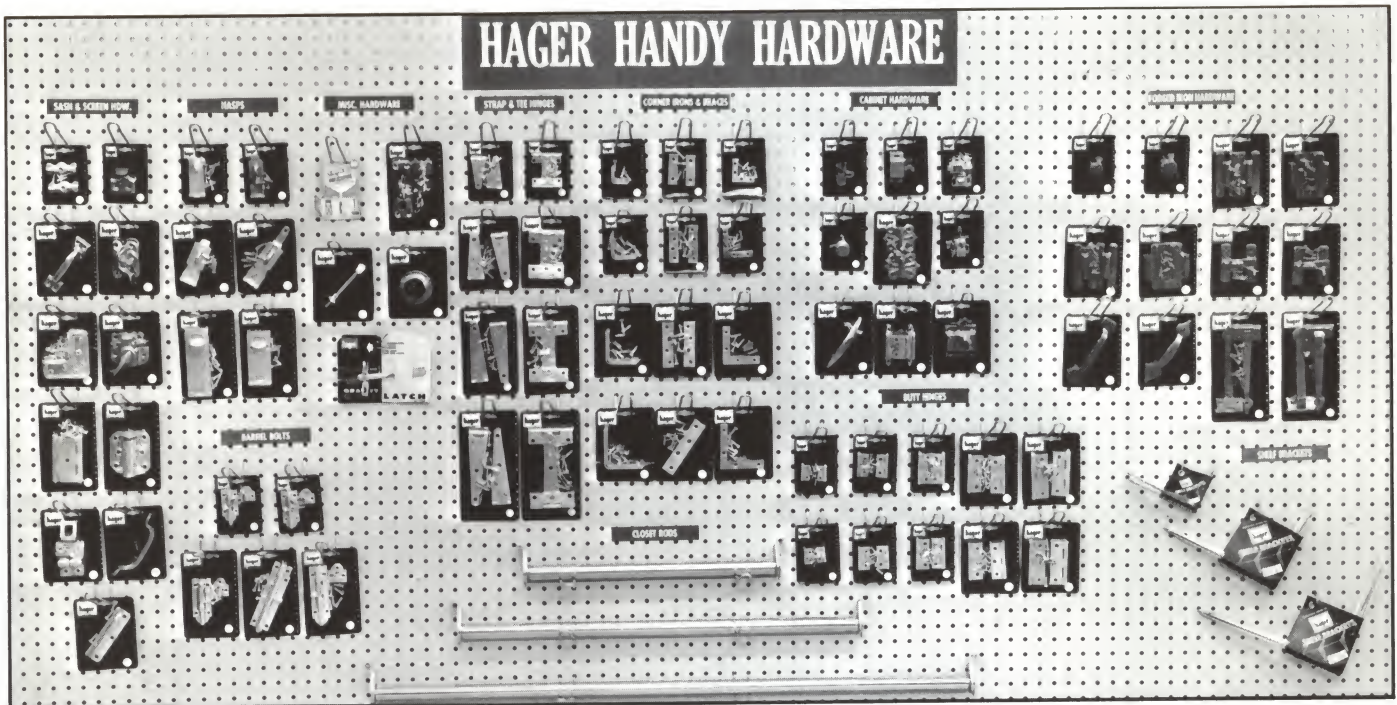
Number	Length	Width at End	Gauge of Metal	Screws	Quantity Per Box	Weight Each, lbs.
5026	9"	1 3/16"	.065"	3/4 x 7	10	1/8
5027	10"	1 1/8"	.089"	3/4 x 9	10	1/4
5028	14 1/4"	1 3/8"	.089"	3/4 x 9	10	2/3
5029	22 1/2"	1 3/4"	.146"	5/8 x 12	10	1 1/3



EVERYTHING HINGES ON HAGER

97

Carded Hardware



MASS SALES DISPLAY NO. 138

Consists of 11 Assortments (1-H to 11-H) of Carded Hardware

Geared to dealer store and NRHA-recommended carded hardware inventory based on latest "Turnover" figures.

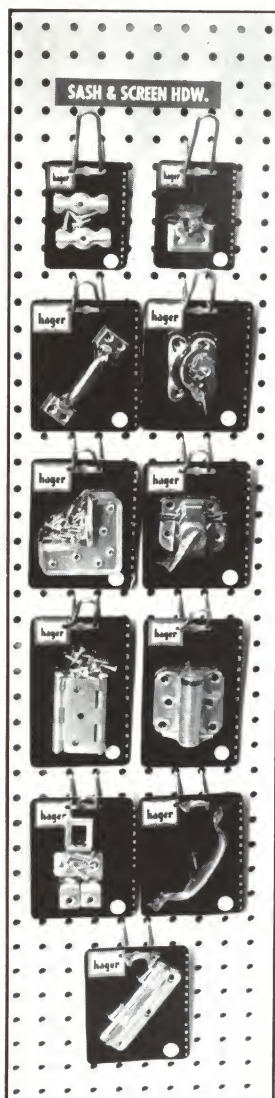
11 Assortments represent the 87 most profitable, fastest turning basic items.

MASS DISPLAY in 4 ft. x 8 ft. area.

Each Assortment contains free Header sign, necessary hooks for effective display of each item, and handy stock control "re-order" cards to increase turnover.



Carded Hardware



SASH & SCREEN HARDWARE

ASSORTMENT 1-H

5 CARDS CD 1407 CP
5 CARDS CD 1486 DB
5 CARDS CD 3 CP
5 CARDS CD 1018 CP
5 CARDS CD 20 DB
5 CARDS CD 1487 DB
5 CARDS CD 1484 DB
5 CARDS CD 1 CP
5 CARDS CD 1961 DB
5 CARDS CD 1483 DB

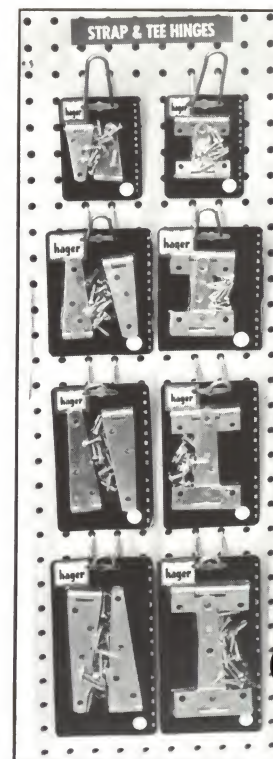
WEIGHT 11¼ POUNDS

STRAP & TEE HINGES

ASSORTMENT 2-H

5 CARDS 2" CD 1900 CP
5 CARDS 3" CD 1900 CP
5 CARDS 4" CD 1900 CP
5 CARDS 5" CD 1900 CP
5 CARDS 2" CD 1904 CP
5 CARDS 3" CD 1904 CP
5 CARDS 4" CD 1904 CP
5 CARDS 5" CD 1904 CP

WEIGHT 12¼ POUNDS



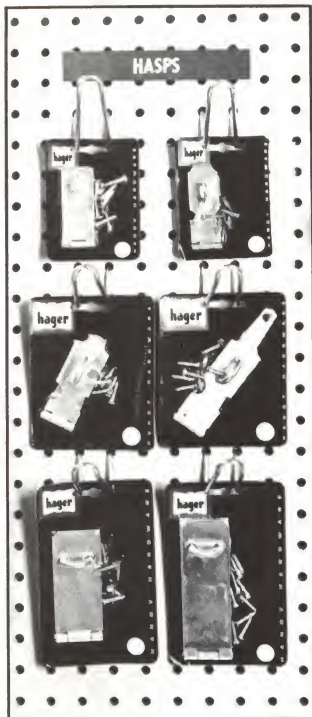
BARREL BOLTS

ASSORTMENT 3-H

5 CARDS 2" CD 1403 CP
5 CARDS 2½" CD 1403 CP
5 CARDS 3" CD 1403 CP
5 CARDS 4" CD 1403 CP
5 CARDS 5" CD 1403 CP

WEIGHT 5¼ POUNDS

Carded Hardware

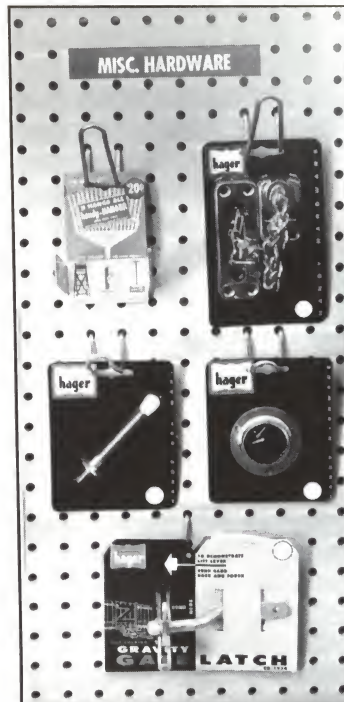


HASPS

ASSORTMENT 4-H

5 CARDS 2½" CD 1911 CP
 5 CARDS 3" CD 1912 CP
 5 CARDS 4½" CD 1912 CP
 5 CARDS 3½" CD 1915 CP
 5 CARDS 4½" CD 1915 CP
 5 CARDS CD 1346 DB

WEIGHT 7 POUNDS

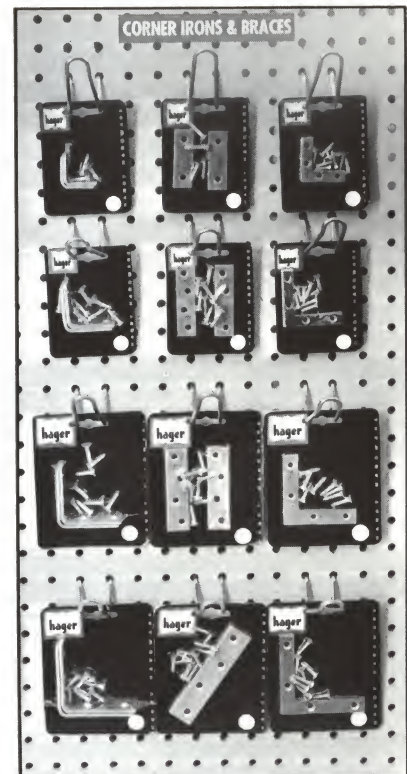


MISCELLANEOUS HDWE.

ASSORTMENT 5-H

5 CARDS CD 10 CP
 5 CARDS CD 211 DB
 5 CARDS CD 1410 DB
 5 CARDS CD 1793 DB
 5 CARDS CD 1934 CP

WEIGHT 5¼ POUNDS



CORNER IRONS AND BRACES

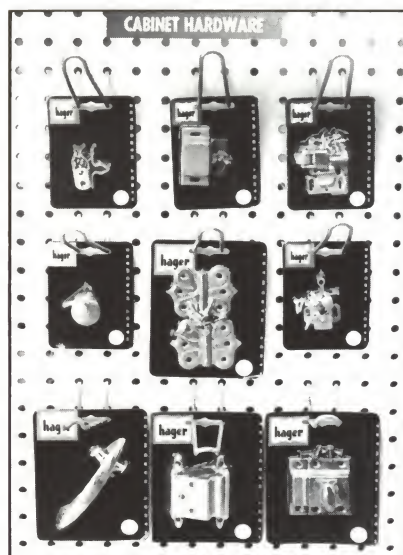
ASSORTMENT 6-H

5 CARDS 2" CD 1994 CP
 5 CARDS 2½" CD 1994 CP
 5 CARDS 3" CD 1994 CP
 5 CARDS 4" CD 1994 CP
 5 CARDS 1" CD 1997 CP
 5 CARDS 1½" CD 1997 CP
 5 CARDS 2" CD 1997 CP
 5 CARDS 2½" CD 1997 CP
 5 CARDS 1½" CD 1998 CP
 5 CARDS 2" CD 1998 CP
 5 CARDS 2½" CD 1998 CP
 5 CARDS 3" CD 1998 CP

WEIGHT 8¼ POUNDS



Carded Hardware

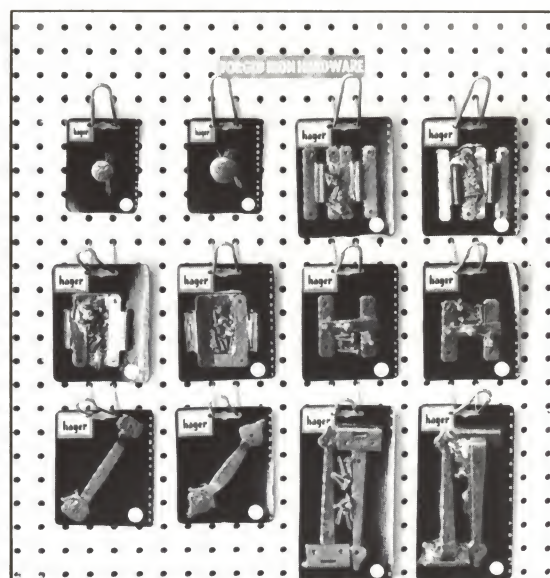


CABINET HARDWARE

ASSORTMENT 7-H

5 CARDS CD 1000 DB
 5 CARDS CD 1006 CHR
 5 CARDS CD 1014 CHR
 5 CARDS CD 1016 CHR
 5 CARDS CD 1431 DB
 5 CARDS CD 1432 CP
 5 CARDS CD 1439 CP
 5 CARDS CD 1440 CP
 5 CARDS CD 1441 CP

WEIGHT 5 POUNDS



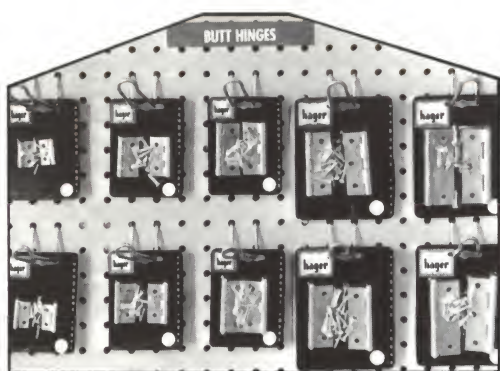
FORGED IRON HARDWARE

ASSORTMENT 8-H

5 CARDS CD 5041 K
 5 CARDS CD 5042 K
 5 CARDS CD 5001 K
 5 CARDS CD 5003 K
 5 CARDS CD 5005 K
 5 CARDS CD 5006 K
 5 CARDS CD 5010 K
 5 CARDS CD 5012 K
 5 CARDS CD 5019 K
 5 CARDS CD 5025 K
 5 CARDS CD 5030 K
 5 CARDS CD 5031 K

WEIGHT 9 POUNDS

Carded Hardware

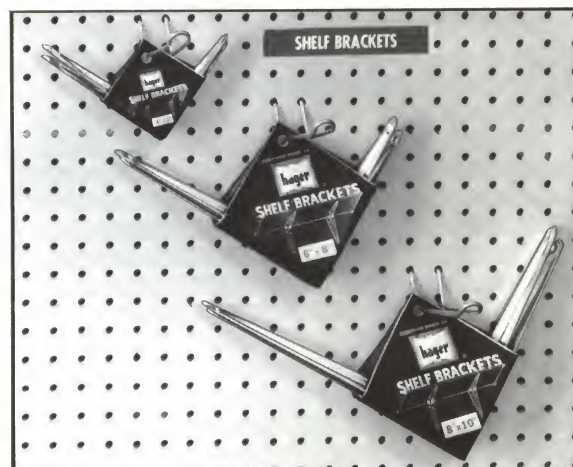


BUTT HINGES

ASSORTMENT 9-H

5 CARDS EACH OF 1", 1½", 2", 2½", 3" CD 1838 CP
5 CARDS EACH OF 1", 1½", 2", 2½", 3" CD 1840 CP

WEIGHT 10 POUNDS

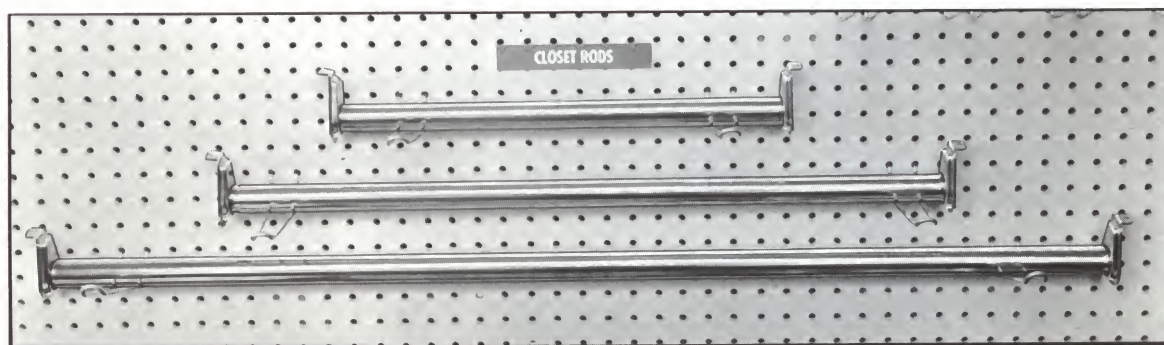


SHELF BRACKETS

ASSORTMENT 10-H

5 CARDS EACH OF 4" x 5", 6" x 8",
8" x 10" CD 1796 CP

WEIGHT 10½ POUNDS



CLOSET RODS

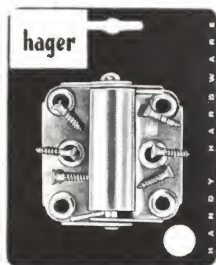
ASSORTMENT 11-H

5 EACH OF 18" to 30"; 30" TO 48";
48" to 72" CD 1795 CHR

WEIGHT 30 POUNDS



Carded Hardware



**CD 1 CP
SPRING HINGE**

For Product Data See Page 114
1 on card 5 cards in box
50 cards in carton—Weight 19½ lbs.



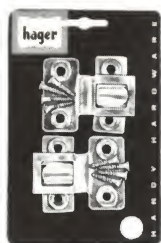
**CD 3 CP
SCREEN CORNER BRACE**

For Product Data See Page 118
1 on card 5 cards in a box
50 cards in carton—Weight 18 lbs.



**CD 10 CP
HANDY HANGER**

For Product Data See Page 149
1 on card 25 cards in box
100 cards in carton—Weight 23½ lbs.



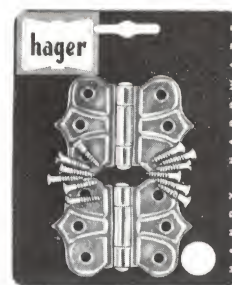
**CD 20 CP
SASH HANGER**

For Product Data See Page 117
2 sets on card 5 cards in box
50 cards in carton—Weight 11 lbs.



**CD 211 DB or CP
DOOR STOP**

For Product Data See Page 148
1 on card 5 cards in box
100 cards in carton—Weight 10¼ lbs.



**CD 1000 DB or CP
CABINET HINGE**

For Product Data See Page 82
1 pair on card 5 cards in box
100 cards in carton—Weight 22 lbs.



**CD 1006 CHR
CABINET HINGE**

For Product Data See Page 85
1 pair on card 5 cards in box
100 cards in carton—Weight 22¼ lbs.



**CD 1014 CHR
DRAWER PULL**

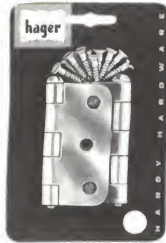
For Product Data See Page 88
1 on card 5 cards in box
100 cards in carton—Weight 13¼ lbs.



**CD 1016 CHR
KNOB**

For Product Data See Page 88
1 on card 5 cards in box
100 cards in carton—Weight 7¾ lbs.

Carded Hardware



**CD 1018 CP
HINGE**

For Product Data See Page 115
2 on card 5 cards in box
50 cards in carton—Weight 50½ lbs.



**CD 1346 DB
LIGHT HASP**

For Product Data See Page 134
1 on card 5 cards in box
50 cards in carton—Weight 11¾ lbs.



**CD 1403 CP or DB
BARREL BOLT**

For Product Data See Page 139

Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
2"	1	5	100	12
2½"	1	5	100	13
3"	1	5	100	22¼
4"	1	5	100	26½
5"	1	5	50	22¼



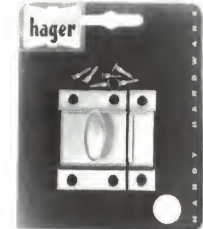
**CD 1407 CP
DOOR BUTTON**

For Product Data See Page 141
4 on card 5 cards in box
100 cards in carton—Weight 10¼ lbs.



**CD 1410 DB or CP
CD 1510 B
CHAIN DOOR GUARD**

For Product Data See Page 149
1 on card 5 cards in box
100 cards in carton—Weight 30½ lbs.



**CD 1430 DB—Small
CD 1431 DB—Large
CUPBOARD TURN**

For Product Data See Page 88
1 on card 5 cards in box
50 cards in carton—Weight 12 lbs.



**CD 1432 CP
FRICTION CATCH**

For Product Data See Page 90
1 on card 5 cards in box
100 cards in carton—Weight 6½ lbs.



**CD 1439 CP
MAGNETIC CATCH**

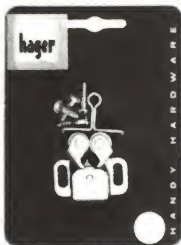
For Product Data See Page 89
1 on card 5 cards in box
100 cards in carton—Weight 11 lbs.



**CD 1440 CP
SINGLE ROLLER CATCH**

For Product Data See Page 90
1 on card 5 cards in box
100 cards in carton—Weight 11¾ lbs.

Carded Hardware



CD 1441 CP

DOUBLE ROLLER CATCH

For Product Data See Page 90
1 on card 5 cards in box
100 cards in carton—Weight 9½ lbs.



CD 1483 B

SASH LIFT

For Product Data See Page 119
1 on card 5 cards in box
100 cards in carton—Weight 17 lbs.



CD 1484 B

SASH LOCK

For Product Data See Page 120
1 on card 5 cards in box
100 cards in carton—Weight 25½ lbs.



CD 1486 DB

HOOK SASH LIFT

For Product Data See Page 119
2 on card 5 cards in box
100 cards in carton—Weight 12 lbs.



CD 1487 DB

SASH LOCK

For Product Data See Page 120
1 on card 5 cards in box
100 cards in carton—Weight 19¾ lbs.



CD 1489 DB

BAR SASH LIFT

For Product Data See Page 119
1 on card 5 cards in box
50 cards in carton—Weight 7½ lbs.



CD 1793 DB

CLOTHES POLE SOCKET

For Product Data See Page 144
1 set on card 5 cards in box
100 cards in carton—Weight 11 lbs.



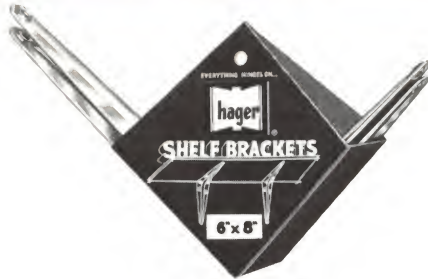
CD 1795 CHR

CLOSET RODS

For Product Data See Page 144

Size	Quan. In Bag	Quan. in Carton	Carton Weight—lbs.
18-30"	1	5	6¼
30-48"	1	5	9½
48-72"	1	5	13

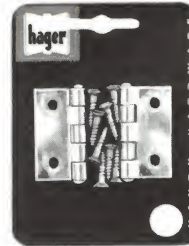
Carded Hardware



**CD 1796 CP
SHELF BRACKET**

For Product Data See Page 142

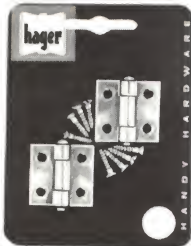
Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
4"x5"	2	5	20	8 1/4
6"x8"	2	5	20	17 1/4
8"x10"	2	5	20	23 1/4



**CD 1838 CP
BUTT HINGE
Riveted Pin**

For Product Data See Page 70

Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
1"	2	5	100	8
1 1/2"	2	5	100	12 1/4
2"	2	5	100	18 1/2
2 1/2"	2	5	100	27
3"	2	5	100	42 1/2



**CD 1840 CP
BUTT HINGE
Loose Pin**

For Product Data See Page 70

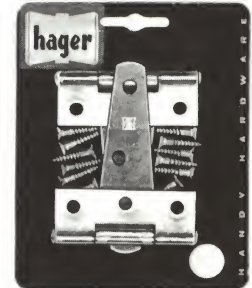
Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
1"	2	5	100	8
1 1/2"	2	5	100	12 1/2
2"	2	5	100	19
2 1/2"	2	5	100	27
3"	2	5	100	42 1/2



**CD 1900 CP
STRAP HINGES**

For Product Data See Page 125

Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
2"	2	5	100	15 3/4
3"	2	5	100	29 1/2
4"	2	5	100	38
5"	2	5	50	28 1/4



**CD 1904 CP
TEE HINGES**

For Product Data See Page 126

Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
2"	2	5	100	17
3"	2	5	100	31
4"	2	5	100	36 1/2
5"	2	5	50	27 3/4



**CD 1911 CP
2 1/2" SAFETY HASP
Fixed Staple**

For Product Data See Page 132
1 on card 5 cards in box
100 cards in carton—Weight 14 lbs.



**CD 1912 CP
HINGE HASP**

For Product Data See Page 133

Size	Quan. on card	Cards in box	Cards in carton	Weight carton
3"	1	5	100	23 1/2
4 1/2"	1	5	100	28 1/2

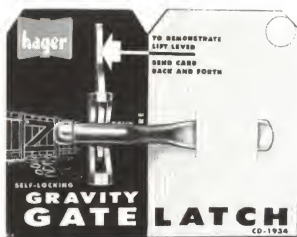


**CD 1915 CP
SAFETY HASP
Adjustable Staple**

For Product Data See Page 131

Size	Quan. on card	Cards in box	Cards in carton	Weight carton, lbs.
3 1/2"	1	5	50	18
4 1/2"	1	5	50	21

Carded Hardware



CD 1934 CP

GRAVITY GATE LATCH

For Product Data See Page 129
1 on card 5 cards in box
20 cards in carton—Weight 11½ lbs.



CD 1961 CP or DB

DOOR PULL

For Product Data See Page 111
1 on card 5 cards in box
50 cards in carton—Weight 7 lbs.



CD 1994 CP

MENDING PLATES

For Product Data See Page 138

Size	Quantity on card	Cards in box	Cards in carton	Weight carton, lbs.
2"	2	5	100	11½
2½"	2	5	100	12
3"	2	5	100	18½
4"	2	5	100	28½



CD 1997 CP

CORNER BRACES

For Product Data See Page 137

Size	Quantity on card	Cards in box	Cards in carton	Weight carton, lbs.
1"	2	5	100	8¾
1½"	2	5	100	13¾
2"	2	5	100	21½
2½"	2	5	100	28¾
3"	2	5	50	22½



CD 1998 CP

FLAT CORNER IRONS

For Product Data See Page 137

Size	Quantity on card	Cards in box	Cards in carton	Weight carton, lbs.
1½"	2	5	100	8
2"	2	5	100	9¾
2½"	2	5	100	15½
3"	2	5	100	18¾
4"	2	5	50	16¼



CD 5001 Flush Door

CD 5005 Lipped Door

"H & L" HINGE

For Product Data See Page 92
1 pair on card 5 cards in box
100 cards in carton—Weight 29 lbs.



CD 5001½ Flush Door

CD 5005½ Lipped Door

"H & L" HINGE

For Product Data See Page 93
1 pair on card 5 cards in box
100 cards in carton—Weight 30 lbs.



CD 5003 Flush Door

CD 5006 Lipped Door

"H" HINGE

For Product Data See Page 92
1 pair on card 5 cards in box
100 cards in carton—Weight 26 lbs.



CD 5003½ Flush Door

CD 5006½ Lipped Door

"H" HINGE

For Product Data See Page 93
1 pair on card 5 cards in box
100 cards in carton—Weight 28 lbs.

Carded Hardware



CD 5010
PULL

For Product Data See Page 91
1 on card 5 cards in box
100 cards in carton—Weight 11¼ lbs.



CD 5011
LATCH PULL

For Product Data See Page 91
1 on card 5 cards in box
50 cards in carton—Weight 12 lbs.



CD 5012
PULL

For Product Data See Page 91
1 on card 5 cards in box
50 cards in carton—Weight 6¾ lbs.



CD 5041
CD 5042
KNOBS

For Product Data See Page 94
1 on card 5 cards in box
100 cards in carton—Weight 18 lbs.



CD 5106
CABINET HINGE
Lipped Door

For Product Data See Page 94
1 pair on card 5 cards in box
50 cards in carton—Weight 12½ lbs.



CD 5030—Flush Door
CD 5031—Lipped Door
BAR LATCH

For Product Data See Page 92
1 on card 5 cards in box
100 cards in carton—Weight 18 lbs.



CD 5030½—Flush Door
CD 5031½—Lipped Door
BAR LATCH

For Product Data See Page 93
1 on card 5 cards in box
100 cards in carton—Weight 19 lbs.



CD 5019
STRAP HINGE
Flush Door

For Product Data See Page 94
1 pair on card 5 cards in box
50 cards in carton—Weight 13½ lbs.



CD 5025
STRAP HINGE
Lipped Door

For Product Data See Page 94
1 pair on card 5 cards in box
50 cards in carton—Weight 14¼ lbs.

Carded Hardware

139

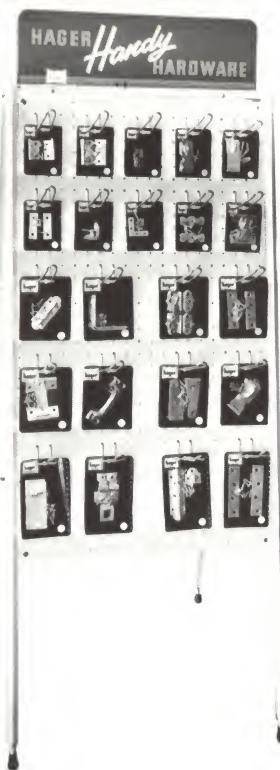
HANDY HARDWARE RACK

Complete With 42 "Do-It-Yourself" Hardware Items, Top Display Sign and Hooks. Simple Assembly In 1 Minute.

DISPLAYS FROM TWO SIDES
SIZE 22" x 56" WEIGHT 85 POUNDS
STURDY STEEL RACK
NON-SLIP RUBBER FEET
OCCUPIES 2½ SQUARE FEET

5 cards of each of these items

CD 3	2", 2½" & 3"	CD 1403	2½"	CD 1911
CD 20		CD 1432	3½"	CD 1915
CD 211		CD 1487	3"	CD 1912
CD 1000		CD 1489	2", 2½", 3" & 4"	CD 1994
CD 1006	1½", 2" & 3"	CD 1838	1", 1½", 2" & 2½"	CD 1997
CD 1014	1½", 2" & 3"	CD 1840	1½", 2", 2½" & 3"	CD 1998
CD 1016	2", 3" & 4"	CD 1900		
CD 1346	2", 3" & 4"	CD 1904		



140

BINNED MERCHANDISER

BINNED MERCHANDISER IS SELF-CONTAINED SHIPPING CARTON, ATTRACTIVELY PRINTED, CONTAINING 15 BINS AND 8 HOOK HANGING SPACES ON UPRIGHT FOR 23 "DO-IT-YOURSELF" HARDWARE ITEMS. SIZE 18" x 26½" WEIGHT 23½ POUNDS

4 cards of each of these items

CD 20		CD 1410
CD 1000	1", 1½" & 2"	CD 1840
CD 1346	3" & 4"	CD 1900
2" & 2½" CD 1403	3" & 4"	CD 1904
CD 1407		CD 1911

3½" CD 1915
3" CD 1912
2" & 3" CD 1994
1½" & 2" CD 1997
1½" & 2½" CD 1998



110

EVERYTHING HINGES ON HAGER

Screen Hardware

DOOR PULLS



STEEL
GOV'T. # F1269

1961

BRASS
GOV'T. # 1269

1561

CURVED "EASY GRIP"
WITH $\frac{3}{4}$ x 6 WOOD SCREWS
LENGTH—4 $\frac{1}{4}$ inches
WIDTH— $\frac{5}{8}$ inches
25 ONLY (POLY BAGS) IN A BOX
200 ONLY IN A CARTON
CARTON WEIGHT 16 LBS.



STEEL

1962

WITH $\frac{3}{4}$ x 6 WOOD SCREWS
LENGTH—5 $\frac{1}{2}$ INCHES
WIDTH— 1 INCH
25 ONLY (POLY BAGS) IN A BOX
200 ONLY IN A CARTON
CARTON WEIGHT 13 LBS.

Screen Hinges

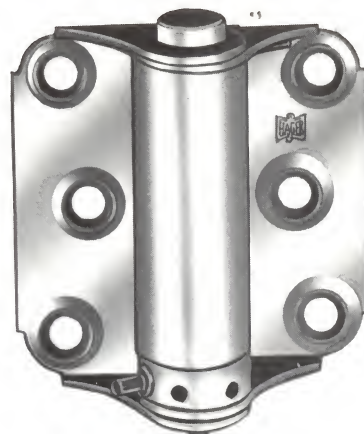
ADJUSTABLE TENSION SPRING TYPE

8

FULL SURFACE

STEEL

ONE PIECE BARREL AND LEAF
SPRING ADJUSTABLE
LOOSE PIN
ONE PAIR IN A BOX
WITH SCREWS AND ADJUSTING PIN



Size Open (inches) | 2 $\frac{3}{4}$ " x 2-11/16"

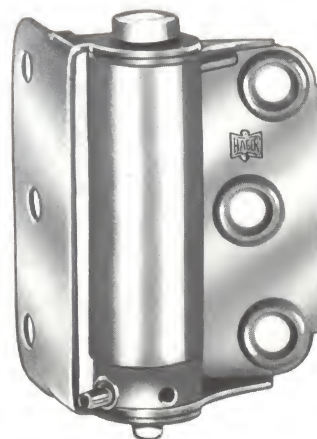
Gauge of Metal	.059
Screw Information	6- $\frac{3}{4}$ x 8
Pair In A Carton	25
Weight Per Carton	19 $\frac{1}{2}$ lbs.

9

HALF SURFACE

STEEL

ONE PIECE BARREL AND LEAF
SPRING ADJUSTABLE
LOOSE PIN
REVERSIBLE
ONE PAIR IN A BOX
WITH SCREWS AND ADJUSTING PIN



Size Joint (inches) | 2 $\frac{3}{4}$ "

Gauge of Metal	.059
Screw Information	6- $\frac{3}{4}$ x 8
Pair In A Carton	25
Weight Per Carton	20 lbs.

Screen Door Sets

ADJUSTABLE TENSION SPRING HINGES



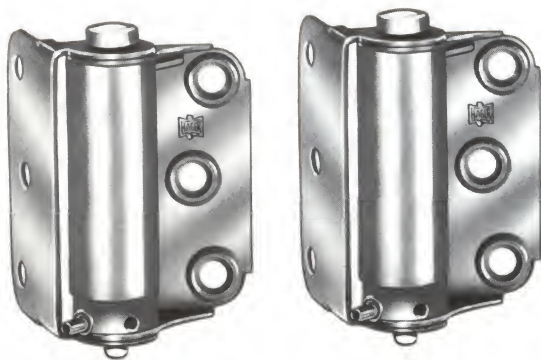
FULL SURFACE
STEEL

18

SET CONSISTS OF:

- 1 PAIR #8 HINGES
- 1 DOOR PULL #1962
- 1 2½ INCH HOOK AND EYE

One Set In A Box
With Screws
25 Sets In A Carton
Carton Weight 23 Lbs.



HALF SURFACE
STEEL

19

SET CONSISTS OF:

- 1 PAIR #9 HINGES
- 1 DOOR PULL #1962
- 1 2½ INCH HOOK AND EYE

One Set In A Box
With Screws
25 Sets In A Carton
Carton Weight 23½ lbs.

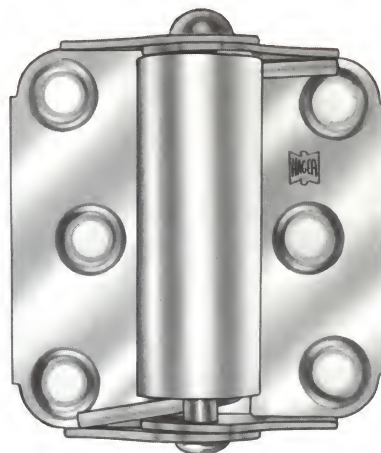
Screen Door Hardware

SPRING HINGES AND SETS

1 FULL SURFACE STEEL

NON ADJUSTABLE
ONE PIECE BARREL AND LEAF
RIVETED PIN
FIVE PAIR IN A BOX
WITH SCREWS

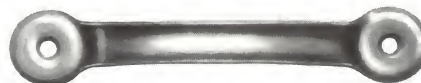
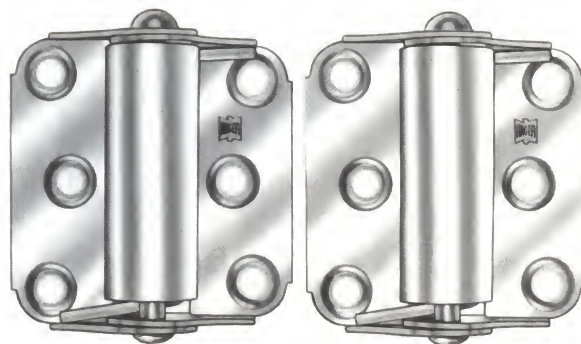
Size Open (inches)	2 3/4" x 2 3/4"
Gauge of Metal	.059
Screw Information	6-3/4 x 8
Pair In A Carton	50
Weight Per Carton	34 lbs.



11 FULL SURFACE STEEL

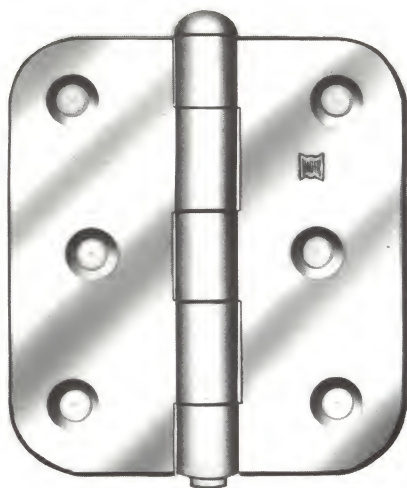
SET CONSISTS OF:
1 PAIR #1 HINGES
1 DOOR PULL #1962
1 2 1/2 INCH HOOK AND EYE

One Set In A Box
With Screws
50 Sets In A Carton
Carton Weight 41 lbs.



Screen Door Hardware

HINGES AND SETS



STEEL

1018

ROUND CORNERS
FIVE KNUCKLES
ONE LEAF COUNTERSUNK
BOTH SIDES ALLOWING
INSTALLATIONS SHOWN
LOOSE PIN
FIVE PAIR (IN POLY BAGS) IN A BOX
WITH SCREWS



Door Thicker
Than Jamb

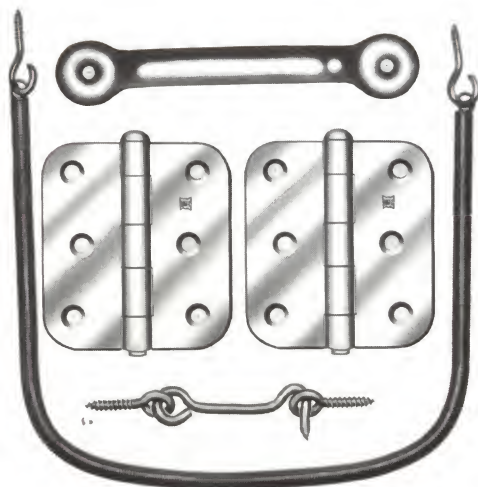


Half Surface



Door Thinner
Than Jamb

Size Open	2½" x 2½"	3" x 2¾"
Gauge of Metal	.075	.092
Screw Information	6-¾ x 8	6-¾ x 8
Pair In A Carton	50	50
Carton Weight	22 lbs.	33½ lbs.



WITH 3" x 2⅞" #1018
AND #3 DOOR SPRING

2750

WITH 2½" x 2½" #1018
AND #2 DOOR SPRING

2752

WITH 3" x 2⅞" #1018
AND #5 DOOR SPRING

2755

Sets Consist of:

1 PAIR #1018 HINGES
1 DOOR PULL #1962
1 2½ INCH HOOK AND EYE
1 DOOR SPRING

One Set In A Box
With Screws

50 Sets In A Carton

Carton Weight—	2750	49½ lbs.
	2752	37 lbs.
	2755	53 lbs.

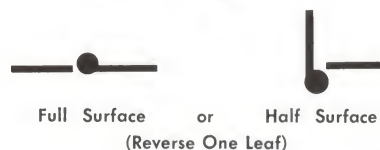
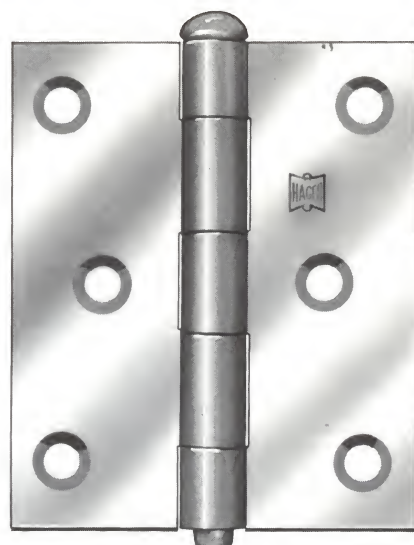


Screen Door Hardware

BUTT HINGES

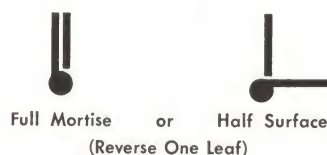
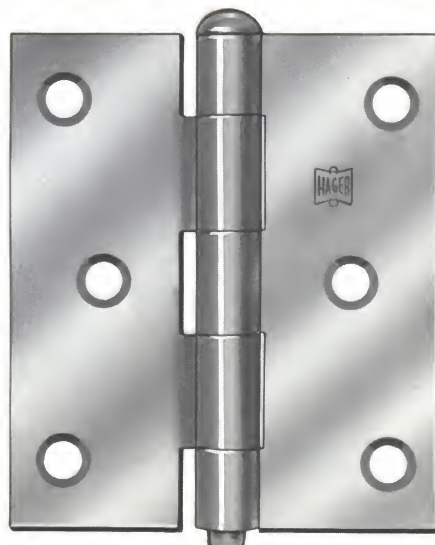
1019	STEEL LOOSE STEEL PIN
1519	BRASS LOOSE BRASS PIN
SS 1519	STAINLESS STEEL LOOSE STAINLESS PIN

NOT SWAGED
FIVE KNUCKLES
REVERSIBLE
SIZE OPEN 3" x 2-9/16"
GAUGE OF METAL .074
5 PAIR (IN POLY BAGS) IN A BOX
WITH 3/4 x 8 WOOD SCREWS
50 PAIR IN A CARTON
CARTON WEIGHT 31 LBS.



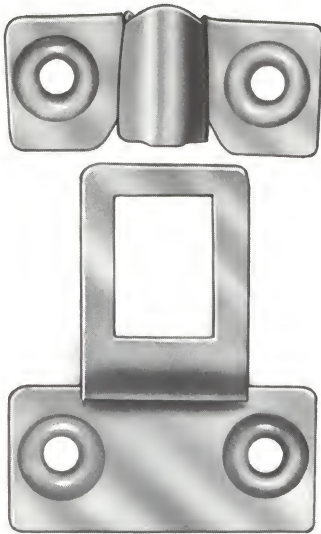
1020	STEEL LOOSE STEEL PIN
1520	BRASS LOOSE BRASS PIN
SS 1520	STAINLESS STEEL LOOSE STAINLESS PIN

ONE LEAF DOUBLE SWAGED
FIVE KNUCKLES
REVERSIBLE
SIZE OPEN 3" x 2 5/8"
GAUGE OF METAL .074
5 PAIR (IN POLY BAGS) IN A BOX
WITH 3/4 x 8 WOOD SCREWS
50 PAIR IN A CARTON
CARTON WEIGHT 31 LBS.



Screen Hardware

SCREEN AND STORM HANGERS

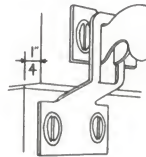


SCREEN AND TRIM FLUSH



Use the outside hook on top where screen and trim are flush.

1 1/8" TRIM AND 7/8" SCREEN



Reverse and use the inside hook on top where screens set in beyond face of casing.

STEEL
GOV'T. #F1824 (CP)

20

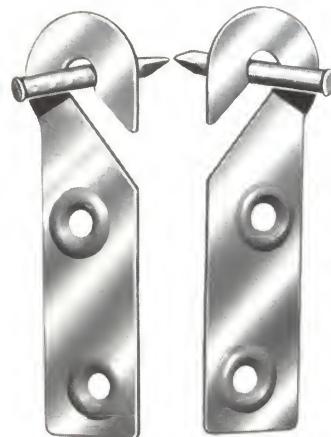
STEEL
WITH 1 1/2" HOOK AND EYE

20 1/2

FOR FULL LENGTH SCREENS AND SASH
SET CONSISTS OF:

2 HOOKS
2 EYES (SQUARES)
8 - 3/4 x 6 SCREWS

Width 1 7/8 inches
Gauge of Metal .058
1 Set In A Poly Bag
10 Sets In A Carton
Carton Weight 18 lbs.



STEEL

21

FOR HALF LENGTH SCREENS AND SASH
SET CONSISTS OF:

2 HANGERS
2 DOWEL PINS
4 3/4 x 6 SCREWS

Size 3" x 3/4"
Gauge of Metal .059
1 Set In A Poly Bag
10 Sets In A Box
100 Sets In A Carton
Carton Weight 11 lbs.

Screen and Sash Hardware

3

CORNER BRACE
WITHOUT SCREWS OR NAILS

WS 3

CORNER BRACE
WITH SCREWS AND NAILS

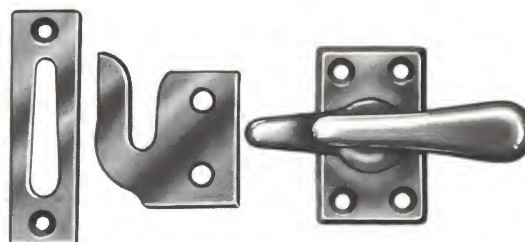
REINFORCED BY FABRICATING
SIZE 3" x 3" x 5/8"
GAUGE OF METAL .036
SCREW SIZE 5/8 x 5
ONE SET OF FOUR IN AN ENVELOPE
20 SETS IN A BOX
200 SETS IN A CARTON
CARTON WEIGHT 72 LBS.



1488

CASEMENT FASTENER

DIE CAST
RIM AND MORTISE STRIKE
WITH SCREWS
PLATE SIZE 1-13/16" x 1 1/8"
10 ONLY (IN POLY BAGS) IN A BOX
100 IN A CARTON
CARTON WEIGHT 15 LBS.

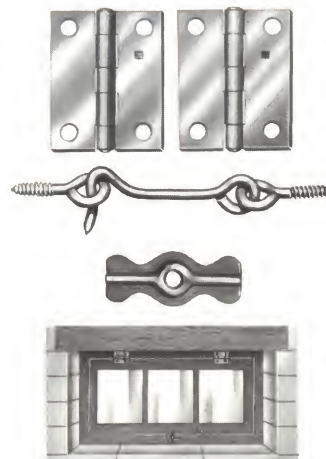


2758

CELLAR WINDOW SETS

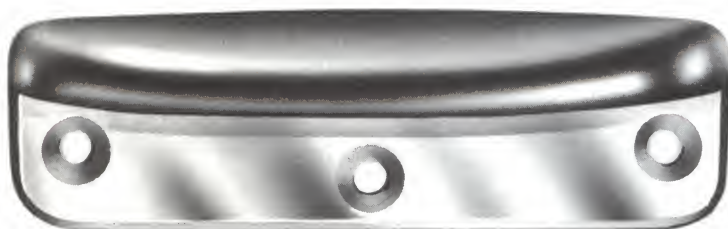
SET CONSISTS OF:
1 PAIR 2 INCH #1838
1 2 1/2 INCH HOOK AND EYE
1 #1407 DOOR BUTTON

10 Sets In A Box
With Screws
50 Sets In A Carton
Carton Weight 12 lbs.



Sash Hardware

SASH LIFTS



BAR TYPE **1483**

STEEL
WITH $\frac{3}{4}$ x 6 WOOD SCREWS
LENGTH 4 INCHES
WIDTH 1 $\frac{1}{2}$ INCHES
10 EACH (IN POLY BAGS) IN A BOX
200 ONLY IN A CARTON
CARTON WEIGHT 12 LBS.
*ALSO AVAILABLE IN BILDORS PAK



BAR TYPE **1489**
GOV'T. #F1204A

STEEL
WITH $\frac{3}{4}$ x 6 WOOD SCREWS
LENGTH 4 INCHES
WIDTH 1 $\frac{1}{2}$ INCHES
10 EACH (IN POLY BAGS) IN A BOX
200 ONLY IN A CARTON
CARTON WEIGHT 17 $\frac{1}{2}$ LBS.



HOOK TYPE **1486**

STEEL
WITH $\frac{3}{4}$ x 6 WOOD SCREWS
WIDTH 1 $\frac{1}{2}$ INCHES
HEIGHT 1 $\frac{3}{4}$ INCHES
25 EACH (IN POLY BAGS) IN A BOX
200 ONLY IN A CARTON
CARTON WEIGHT 10 LBS.

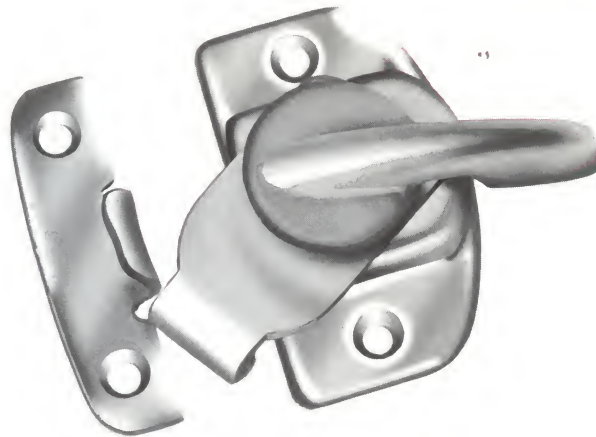
Sash Hardware

SASH LOCKS

1485

**CAM TYPE
SPRING ACTION**

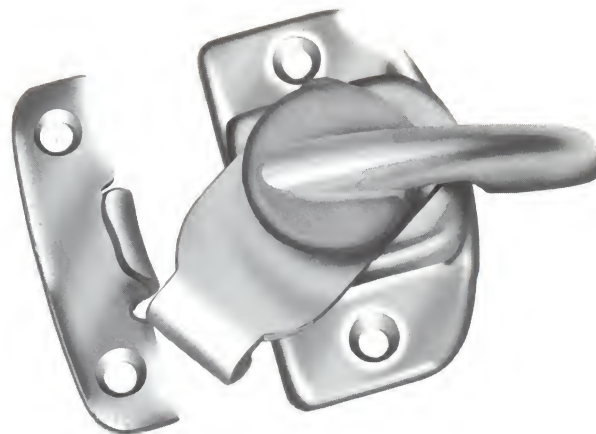
STEEL—WITH SCREWS
SPRING SNAPS LOCKING
BOLT CLEAR OF UPPER WINDOW
DRAWS SASH TOGETHER
BASE SIZE: $2\frac{1}{2}'' \times 1\frac{3}{4}''$
STRIKE SIZE: $2\text{-}3/16'' \times \frac{5}{8}''$
10 EACH (IN POLY BAGS) IN A BOX
100 ONLY IN A CARTON
CARTON WEIGHT 22 LBS.
*ALSO AVAILABLE IN BILDORS PAK



1484

**CAM TYPE
MANUAL ACTION**

STEEL—WITH SCREWS
DRAWS SASH TOGETHER
BASE SIZE: $2\frac{1}{2}'' \times 1\frac{3}{4}''$
STRIKE SIZE: $2\text{-}3/16'' \times \frac{5}{8}''$
10 EACH (IN POLY BAGS) IN A BOX
100 ONLY IN A CARTON
CARTON WEIGHT 21 LBS.
*ALSO AVAILABLE IN BILDORS PAK



1487

**CRESANT TYPE
SPRING LOADED**

STEEL
WITH SCREWS
BASE SIZE: $2\frac{1}{2}'' \times 1''$
STRIKE SIZE: $2\frac{1}{2}'' \times \frac{3}{4}''$
10 EACH (IN POLY BAGS) IN A BOX
100 ONLY IN A CARTON
CARTON WEIGHT 16 LBS.
*ALSO AVAILABLE IN BILDORS PAK



Sash and Shutter Hardware

SASH POLE · SHUTTER HINGE

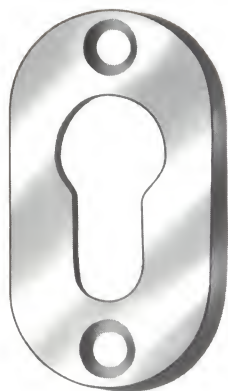


SASH POLE
STEEL

1490

¾ INCH STEEL TUBING
"LUMA SHEEN" FINISH
ALUMINUM CAST HOOK
RUBBER CAP
ONE POLE IN PAPER TUBE
10 POLES IN A CARTON

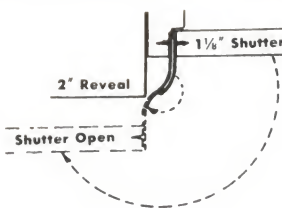
Length (Feet)	4	6	8	10	12
Weight Each	1½	2	2½	3	3½



SASH POLE HOLDER
CAST BRASS

1491

SIZE: 2¼" x 1¼" x ¾"
ONE ONLY IN A POLY BAG
WITH SCREWS
10 EACH IN A BOX
WEIGHT OF BOX 1½ LBS.



SHUTTER HINGE
STEEL

1845

¾" OFFSET TO THROW SHUTTER
PARALLEL TO WALL WHEN OPEN
FIVE KNUCKLES
LOOSE STEEL PIN (BRASS AVAILABLE)
TWO PAIR IN A BOX WITH SCREWS
20 PAIR IN A CARTON

Size Open	3" x 3½"	3" x 5"	3" x 6"	3" x 8"
Gauge of Metal	.119	.119	.119	.119
Clearance (1⅛" blind)	1¼"	2¾"	3¾"	5¾"
Carton Weight lbs.	25	31	34	38

Shutter Hardware

HOLDBACKS

2685

"S" STYLE
WITH 4 INCH LAG SCREW

2686

"S" STYLE
WITH BOLT AND PLATE

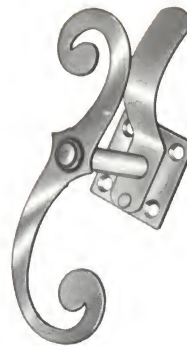
2687

"S" STYLE
WITH 4 3/4 INCH DRIVE PIN

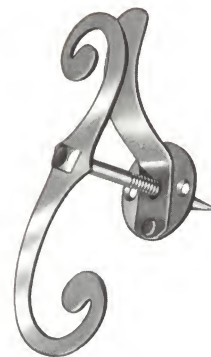
STEEL
REGULARLY FURNISHED
WITHOUT ANTI-RATTLER
AVAILABLE WITH ANTI-RATTLER
(INDICATE BY ADDING SUFFIX "1/2"
i.e., NO. 2685 1/2)
LENGTH: 6 3/4 INCHES
FURNISHED IN PRIME COAT, CADMIUM,
OR DEAD BLACK—CADMIUM PLATED FINISHES
ONE PAIR IN A BOX
25 PAIR IN A CARTON
CARTON WEIGHT 27 LBS.



No. 2685 1/2



No. 2686 1/2



No. 2687 1/2

2688

ANTIQUE GRAPE
WITH 4 INCH LAG SCREW

2689

ANTIQUE GRAPE
WITH 4 3/4 INCH DRIVE PIN



COLONIAL BLACK FINISH
WITH SCREW, WASHER AND COTTER PIN
SIZE: 4" x 2 5/8"
ONE PAIR IN A BOX
10 PAIR IN A CARTON
CARTON WEIGHT 21 LBS.

Shutter Hardware

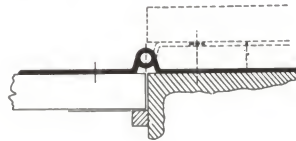
HINGES AND BARS



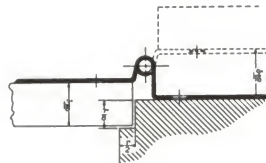
STEEL
BRASS PIN

1926

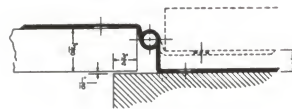
Detail A
For 1 3/8" Shutters That
Set Flush With Frame
Offset: 1/2" x 1/2"
Clearance 1 Inch



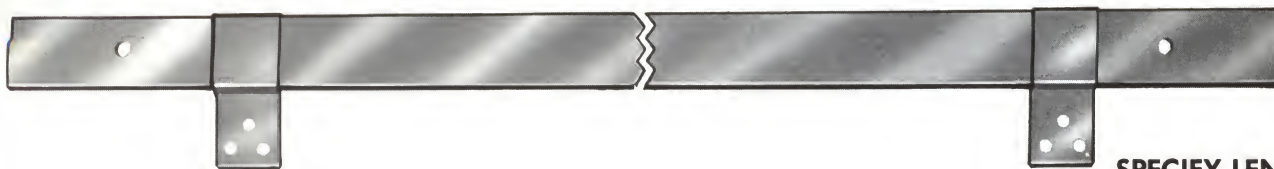
Detail B
For 1 3/8" Shutters That
Set Out 1/2" Beyond Frame
Offset: 1 1/16" x 1/2"
Clearance: 1 9/16"



Detail C
Detail B With Shutter Leaf Reversed
For 1 3/8" Shutters That
Set Out 1 3/8" Beyond Frame
Offset: 1 1/16" x 1/2"
Clearance: 1 1/16"



SPECIFY DETAIL
REVERSIBLE
KNURLED PIN PACKED SEPARATE
TO BE DRIVEN IN ON JOB
HOT DIP GALVANIZED
SIZE 1" x 7 1/2"
GAUGE OF METAL: .125
SCREWS 1 x 14 WS: 1 1/4 x 14 WS
TWO PAIR IN A BOX
20 PAIR IN A CARTON
CARTON WEIGHT 31 LBS.

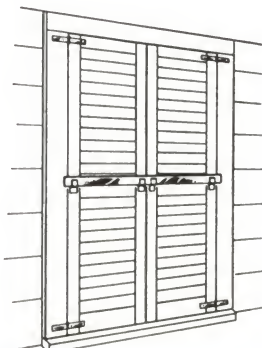


STEEL

1984

SPECIFY LENGTH

24", 36", 48", 60", OR 72" GALVANIZED



SET CONSISTS OF:
ONE BAR
FOUR HOLDERS
WITHOUT SCREWS
BARS: 1 1/4" x 3/8"
HOLDERS 1 1/4" x 2 3/4"
PACKED TO ORDER



EVERYTHING HINGES ON HAGER

123

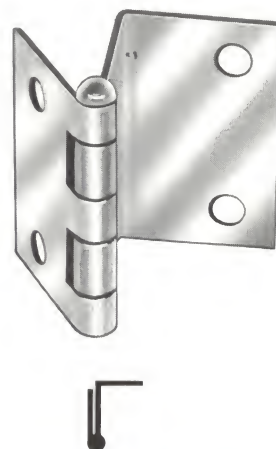
Shutter Hardware

FOR INSIDE LOUVER SHUTTERS

1824

STEEL
LOOSE STEEL

FOR HANGING "END SHUTTER" TO WINDOW
SIZE: 1½" x ¾" OFFSET
GAUGE OF METAL: .055
WITH ⅝ x 6 WOOD SCREWS
2 PAIR IN A POLY BAG
10 PAIR IN A BOX
100 PAIR IN A CARTON
CARTON WEIGHT 21 LBS.

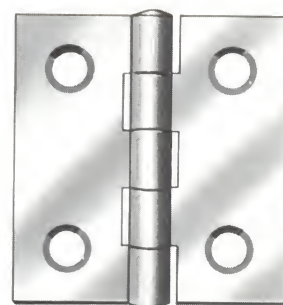


FS 1838

STEEL
RIVETED STEEL PIN

INTER-PANEL HINGE
WITH SCREWS
2 PAIR IN A POLY BAG
10 PAIR IN A BOX
100 PAIR IN A CARTON

Size Open	1" x 1"	1½" x 1⅜"	2" x 1-9/16"
Gauge of Metal	.050	.050	.062
Screw Size	½ x 3	⅝ x 5	⅝ x 6
Carton Weight	5	8	14

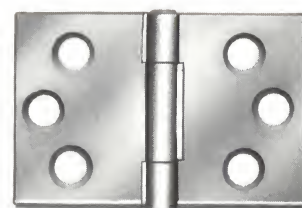


1842

STEEL
RIVETED STEEL PIN

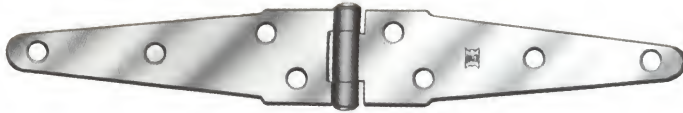
INTER-PANEL HINGE
WITHOUT SCREWS
10 PAIR IN A BOX
100 PAIR IN A CARTON

Size Open	1" x 1⅝"	1¼" x 1⅞"	1½" x 2⅛"
Gauge of Metal	.050	.055	.055
Screw Size	6 No. 4	6 No. 5	6 No. 5
Carton Weight	7	9	15



Strap Hinges

RIVETED PIN • STEEL



LIGHT STRAP HINGES

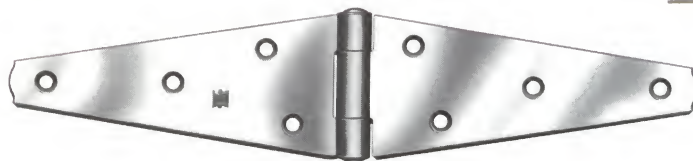
1900

WITHOUT SCREWS

WS1900

WITH SCREWS

Size (Length Each Leaf) Inches	2	3	4	5	6	8
Width of Joint	1	$1\frac{3}{32}$	$1\frac{3}{16}$	$1\frac{11}{32}$	$1\frac{9}{16}$	$1\frac{7}{8}$
Gauge of Metal	.057	.068	.068	.075	.091	.104
Size of Screws	$\frac{5}{8} \times 5$	$\frac{3}{4} \times 6$	$\frac{3}{4} \times 7$	1 x 8	1 x 9	1 x 10
PACKING INFORMATION WITHOUT SCREWS						
Pair in a Box	20	20	10	10	5	5
Pair in Carton	200	200	100	100	50	20
Weight Per Carton, Lbs.	22	45	34	44	35	28
PACKING INFORMATION WITH SCREWS						
Pair in a Box	1	1	1	1	1	1
Pair in a Carton	100	100	100	50	50	50
Weight Per Carton, Lbs.	14	26	37	28	43	73



HEAVY STRAP HINGES

1902

WITHOUT SCREWS

WS1902

WITH SCREWS

GOVT. #2203 (GALVANIZED
BRASS PIN)

Size (Length Each Leaf) Inches	4	5	6	8	10	12
Width of Joint	$1\frac{1}{2}$	$1\frac{11}{16}$	$2\frac{1}{2}$	3	$3\frac{5}{8}$	4
Gauge of Metal	.083	.104	.119	.134	.134	.154
Size of Screws	1 x 9	1 x 10	$1\frac{1}{4} \times 10$	$1\frac{1}{4} \times 12$	$1\frac{1}{2} \times 14$	$1\frac{1}{2} \times 14$
PACKING INFORMATION WITHOUT SCREWS						
Pair in a Box	10	5	5	5	—	—
Pair in a Carton	100	50	50	20	5	5
Weight Per Carton, Lbs.	51	44	84	57	22	32
PACKING INFORMATION WITH SCREWS						
Pair in a Box	1	1	1	1	1	1
Pair in a Carton	50	50	25	25	10	10
Weight Per Carton, Lbs.	30	50	46	77	46	65

"T" Hinges

STEEL • RIVETED PIN

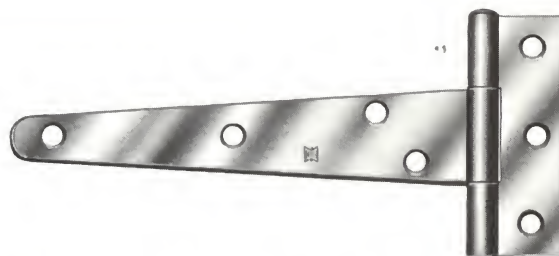
1904

WITHOUT SCREWS

WS1904

WITH SCREWS

LIGHT T-HINGES



Size (Length of Strap) Inches	2	3	4	5	6	8
Width of Pad	1/2	3/4	3/4	7/8	7/8	1
Length of Joint	2	2 3/8	2 5/8	3	3 1/4	4
Width of Strap at Joint	7/8	1	1 1/16	1 3/16	1 1/4	1 11/16
Gauge of Metal	.053	.065	.065	.074	.074	.089
Screw Size	5/8 x 5	3/4 x 6	3/4 x 7	1 x 8	1 x 9	1 x 9
PACKING INFORMATION WITHOUT SCREWS						
Pair in a Box	20	20	20	10	10	5
Pair in a Carton	200	200	200	100	100	20
Weight Per Carton, Lbs.	23	47	58	44	50	22
PACKING INFORMATION WITH SCREWS						
Pair in a Box	1	1	1	1	1	1
Pair in a Carton	100	100	100	100	50	50
Weight Per Carton, Lbs.	17	29	35	45	31	59

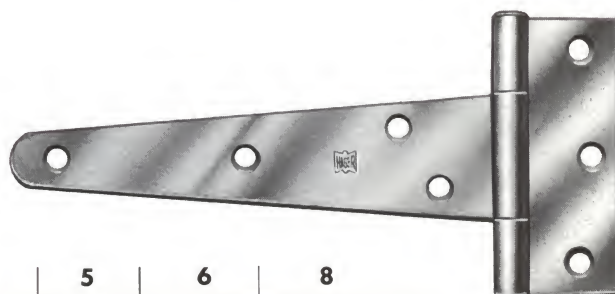
1906

WITHOUT SCREWS

WS1906

WITH SCREWS

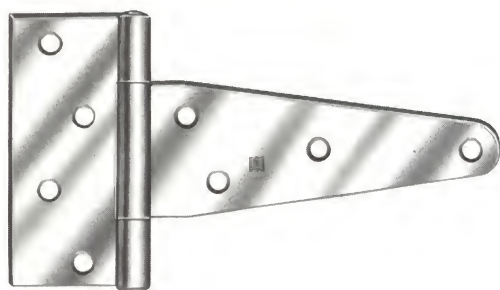
HEAVY T-HINGES



Size (Length of Strap) Inches	4	5	6	8
Width of Pad	7/8	1 1/8	1 3/8	1 1/2
Length of Joint	2 7/8	3 1/4	3 1/2	4
Width of Strap at Joint	1 5/16	1 3/8	1 1/2	1 11/16
Gauge of Metal	.074	.074	.089	.104
Screw Size	1 x 8	1 x 9	1 x 9	1 x 10
PACKING INFORMATION WITHOUT SCREWS				
Pair in a Box	10	5	5	5
Pair in a Carton	100	50	50	20
Weight Per Carton, Lbs.	41	29	42	26
PACKING INFORMATION WITH SCREWS				
Pair in a Box	1	1	1	1
Pair in a Carton	50	50	50	50
Weight Per Carton, Lbs.	26	35	48	74

"T" Hinges

RIVETED PIN • STEEL



EXTRA HEAVY T-HINGES

1908

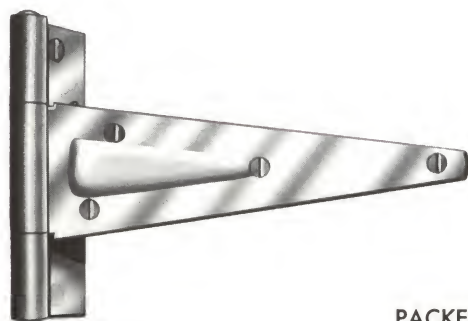
WITHOUT SCREWS

WS1908

WITH SCREWS

GOVT. # 2209 (GALVANIZED
BRASS PIN)

Size (Length of Strap) Inches	4	5	6	8	10	12
Width of Pad	1 1/4	1 9/16	1 3/4	2 1/8	2 1/4	2 3/4
Length of Joint	3 1/2	3 7/8	4 1/2	5 1/2	7	7 3/4
Width of Strap at Joint	1 5/8	2 1/8	2 3/8	2 5/8	3	4 1/16
Gauge of Metal	.089	.104	.119	.134	.134	.154
Screw Size	1 x 9	1 x 10	1 1/4 x 10	1 1/2 x 12	1 1/2 x 14	1 1/2 x 14
PACKING INFORMATION WITHOUT SCREWS						
Pair in a Box	10	5	5	5	—	—
Pair in a Carton	100	50	20	20	5	5
Weight Per Carton, Lbs.	70	56	35	58	23	33
PACKING INFORMATION WITH SCREWS						
Pair in a Box	1	1	1	1	1	1
Pair in a Carton	50	50	25	25	10	5
Weight Per Carton, Lbs.	41	65	50	68	52	37



EXTRA HEAVY T-HINGES

HALF SURFACE

WS1963

WITH SCREWS

GOVT. # 2212 (GALVANIZED
LOOSE BRASS PIN)

PACKED ONE PAIR IN A BOX WITH SCREWS

Size (Length of Strap)	Length of Joint	Width of Pad	Width of Strap at Joint	Gauge of Metal	Screw Size	Pair in a Carton	Weight Per Carton, Lbs.
8	5 1/2	2 1/8	2 5/8	.134	1 1/2 x 12	20	63
10	7	2 1/4	3	.134	1 1/2 x 12	10	51
12	7 3/4	2 3/4	4 1/16	.134	1 1/2 x 12	10	83

Hager

EVERYTHING HINGES ON HAGER

127

Gate Hardware

STEEL

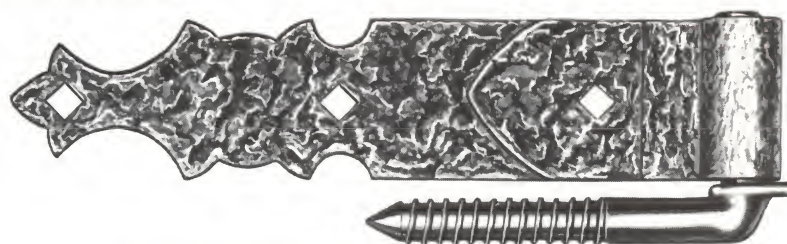
1969

ORNAMENTAL HOOK AND STRAP

WITHOUT SCREWS

WS1969

WITH SCREWS



Size (Length of Strap) Inches	8
Width of Strap	15/8
Size of Hook	1/4 x 4
Gauge of Metal	.119
Number of Holes	3
Lag Screw Size	1/4 x 1 1/2
Pair in a Box	1
Pair in a Carton	10
Weight Per Carton, Lbs.	20

Available in Old Iron (IR) and Cadmium (CP) Finishes

1973

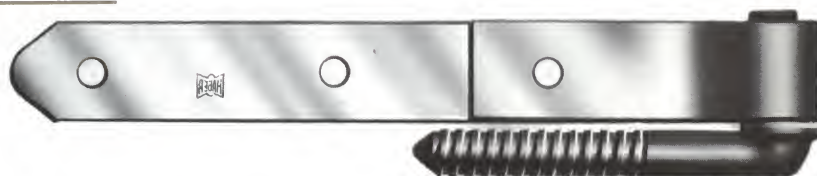
SCREW HOOK AND STRAP

WITHOUT SCREWS

1976

STRAPS ONLY

WITHOUT SCREWS



Size (Length of Strap) Inches	6	8	10	12	14	16	18	20	24	36
Width of Strap	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 3/4	1 3/4	2	2
Size of Hook	1/2 x 4	1/2 x 4	5/8 x 5	5/8 x 5	3/4 x 6	3/4 x 6	3/4 x 6	3/4 x 6	7/8 x 8	7/8 x 8
Gauge of Metal	.164	.164	.164	.164	.250	.250	.250	.250	.250	.250
Number of Holes	2	3	3	3	3	3	4	4	4	4
Bolt Size Required	5/16	5/16	5/16	5/16	3/8	3/8	3/8	3/8	1/2	1/2
Pair in a Box	1	1	1	1	—	—	—	—	—	—
Pair in a Carton	10	10	10	10	5	5	5	5	3	3
Weight Per Carton, Lbs.	17 1/2	20	28	32	30	33	40	42	35	48

Gate Hardware

STEEL



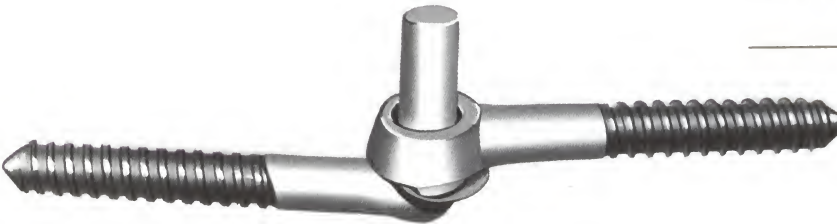
SCREW HOOKS

1974

Size (Inches)	1/2x4	3/8x5	3/4x6	7/8x8
For Straps, Size	6 and 8	10 and 12	14 to 22	24 to 36
Quantity in a Carton	10	10	10	10
Weight Per Carton, Lbs.	3	7	11	17

SCREW HOOK AND EYE

1975

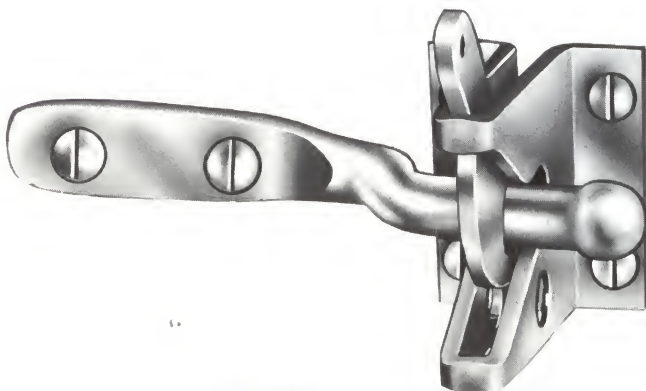


Size (Inches)	1/2	5/8
Length, Each Hook	4	5
Quantity in a Carton	10	10
Weight Per Carton, Lbs.	6	11

GATE LATCH
GRAVITY TYPE

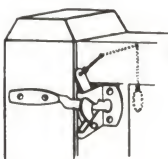
1934

1934 1/2

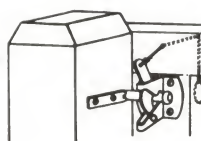


SELF LATCHING
CADMIUM OR DEAD BLACK FINISH
SIZE OF BASE—1 3/4" x 1 3/4"
PROJECTION—2"
GAUGE OF METAL—.125
SCREW INFORMATION—4 - 1 x 8 RH
2 - 1 1/4 x 10 RH
5 LATCHES IN A BOX
50 LATCHES IN A CARTON
CARTON WEIGHT—25 LBS.

For Flush Gates
1934



For Overlapping Gates
1934 1/2

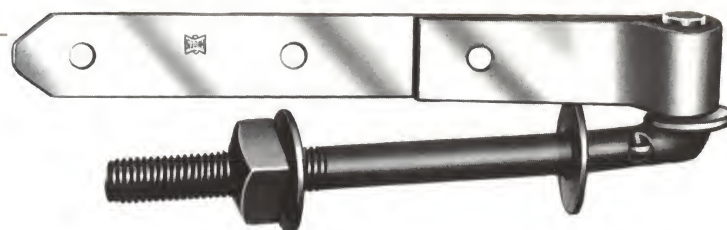


Gate Hardware

STEEL

1925

BOLT HOOK AND STRAP WITHOUT SCREWS



Size (Length of Strap) Inches	6	8	10	12	14	16	18	20	24
Width of Strap	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 3/4	1 3/4	2
Size of Bolt	1/2 x 6	1/2 x 6	5/8 x 8	5/8 x 8	3/4 x 10	3/4 x 10	3/4 x 10	3/4 x 10	7/8 x 10
Gauge of Metal	.164	.164	.164	.164	.250	.250	.250	.250	.250
Bolt Size Required	5/16	5/16	5/16	5/16	3/8	3/8	3/8	3/8	1/2
Pair in a Box	1	1	1	1	—	—	—	—	—
Pair in a Carton	10	10	10	10	5	5	5	5	3
Weight Per Carton, Lbs.	23	25	40	43	39	43	49	52	43

1970

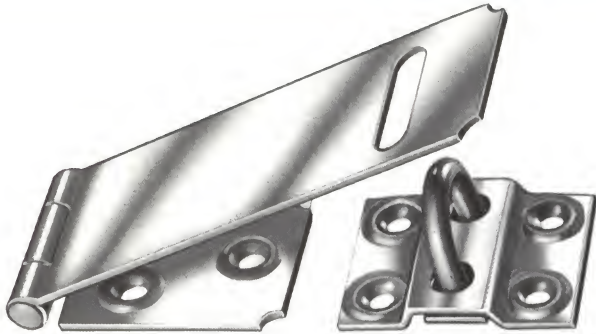
BOLT HOOK



Size (Inches)	1/2x6	5/8x8	3/4x10	7/8x10
For Straps, Size	6 and 8	10 and 12	14 to 22	24 to 36
Quantity Per Carton	10	10	10	10
Weight Per Carton, Lbs.	5 1/2	12	20	28

Safety Hasps

RIVETED PIN • STEEL



LOOSE STAPLE

1915

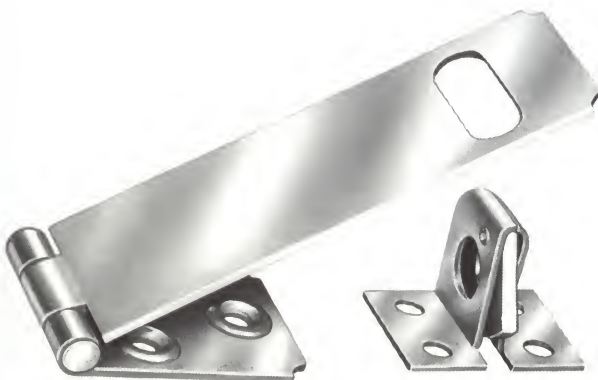
WITHOUT SCREWS

LOOSE STAPLE

WS1915

WITH SCREWS

Size, Length Closed	3½	4½	6
Length of Hinge Part	13/8	2	23/4
Length of Joint	1 1/2	1 1/2	1 7/8
Gauge of Hasp	.074	.074	.104
Size of Staple Plate	1 1/2 x 1 5/16	1 1/2 x 1 5/16	1 7/8 x 2 1/4
Gauge of Staple Plate	.074	.074	.074
Screw Information	7 3/4 x 7	7 3/4 x 7	9-1 x 9
PACKING INFORMATION WITHOUT SCREWS			
Number in a Box	20	10	10
Number in Carton	200	100	100
Carton Weight, Lbs.	52	31 1/2	70
PACKING INFORMATION WITH SCREWS			
Number in a Box	1	1	1
Number in Carton	100	100	50
Carton Weight, Lbs.	31	37 1/2	41



SNAP LOCK STAPLE

1916

WITHOUT SCREWS

SNAP LOCK STAPLE

WS1916

WITH SCREWS

Size, Length Closed	3½	4½
Length of Hinge Part	13/8	2
Length of Joint	1 1/2	1 1/2
Gauge of Hasp	.074	.074
Size of Staple Plate	1 1/8 x 1 9/16	1 1/8 x 1 9/16
Gauge of Staple Plate	.050	.050
Screw Information	7 3/4 x 7	7 3/4 x 7
PACKING INFORMATION WITHOUT SCREWS		
Number in a Box	10	10
Number in Carton	100	100
Carton Weight, Lbs.	23 1/2	29
PACKING INFORMATION WITH SCREWS		
Number in a Box	1	1
Number in Carton	100	100
Carton Weight, Lbs.	27	31



Safety Hasps

STEEL • RIVETED PIN

1911

WITHOUT SCREWS

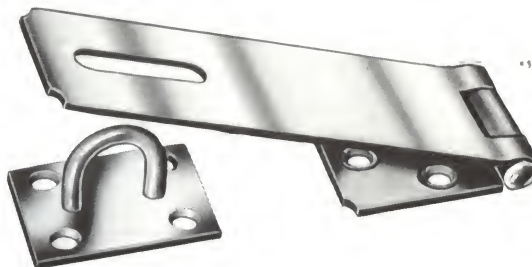
FIXED STAPLE

WS1911

WITH SCREWS

FIXED STAPLE

GOVT. # F1405E



1920

WITHOUT SCREWS

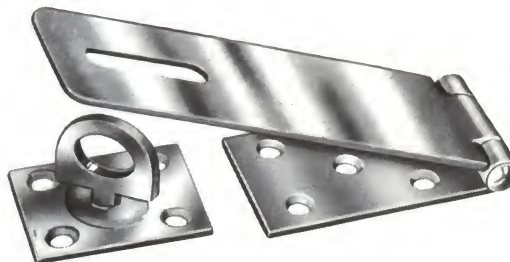
SWIVAL STAPLE

WS1920

WITH SCREWS

SWIVAL STAPLE

Available only in
Sizes 3½", 4½" and 6"



Size, Length Closed	2½	3½	4½	6	8
Length of Hinge Part	1 1/8	1 3/8	2	2 3/4	3 1/4
Length of Joint	1	1 1/2	1 1/2	1 7/8	2 1/2
Gauge of Hasp	.056	.074	.074	.104	.156
Staple Plate Size, 1911	1 1/8 x 1	1 5/8 x 1 3/8	1 5/8 x 1 3/8	2 1/8 x 1 11/16	2 1/2 x 1 3/4
Staple Plate Size, 1920	—	1 11/16 x 1 5/16	1 11/16 x 1 5/16	2 1/8 x 1 11/16	—
Gauge of Staple, 1911	.064	.090	.090	.104	.134
Gauge of Staple, 1920	—	.074	.074	.120	—
Screw Information	7-3/4 x 6	7-3/4 x 7	7-3/4 x 7	9-1 x 9	9-1 1/4 x 12
PACKING INFORMATION WITHOUT SCREWS					
Number in a Box	20	20	10	10	5
Number in Carton	200	200	100	100	20
Carton Weight, Lbs.	19	50	35	75	32
PACKING INFORMATION WITH SCREWS					
Number in a Box	1	1	1	1	—
Number in Carton	200	100	100	50	—
Carton Weight, Lbs.	23	30	38	40	—

1922

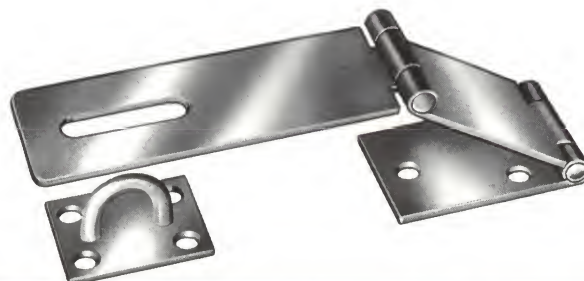
WITHOUT SCREWS

CHEST TYPE

FIXED STAPLE

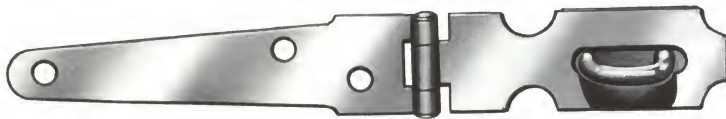
Available only in sizes 4½" and 6"
Dimensions as in chart above except

Size	4½	6
Length of Middle Part	2 1/2	3 1/2
Carton Weight, Lbs.	40	80



Hinge Hasps

STEEL • RIVETED PIN



FIXED STAPLE

1912

WITHOUT SCREWS

FIXED STAPLE

GOVT. #F1401E

WS1912

WITH SCREWS

Size, Length of Strap	3	4½	6	8
Length of Slotted Part	3	3¼	4	5¼
Length of Joint	1⅛	1⅛	1⅞	1⅞
Gauge of Hasp	.065	.074	.090	.104
Staple Plate Size	1½ x 1⅛	1½ x 1⅛	2⅛ x 1⅛	2⅛ x 1⅛
Gauge of Staple	.090	.090	.104	.104
Screw Information	7¾ x 6	8¾ x 7	8-1 x 8	8-1 x 9
PACKING INFORMATION WITHOUT SCREWS				
Number in a Box	20	10	10	5
Number in Carton	200	100	100	20
Carton Weight, Lbs.	35½	23	45	16
PACKING INFORMATION WITH SCREWS				
Number in a Box	1	1	1	—
Number in Carton	100	100	50	—
Carton Weight, Lbs.	23	28	28	—



EXTRA HEAVY

FIXED STAPLE

1941

WITHOUT SCREWS

GOVT. #F1403E

WS1941

WITH SCREWS

Size, Open Length	Length of Slotted Part	Length of Hinge Part	Length of Joint	Gauge of Metal	Staple Size	Gauge of Staple	Screw Info.	Number in Box	Number in Carton	Carton Weight
7¾	3½	4¼	1¾	.160	2½ x 1¾	.134	8-1¼ x 12	5	50	48½



STAPLE PLATE

FIXED LOOP

1913

Size	Plate Size	Gauge of Metal	Loop Projection	Screw Info.	Quantity in Box	Quantity in Carton	Carton Weight, Lbs.
No. 2	1⅛ x 1	.064	5/8	¾ x 6	20	200	10
No. 3	1½ x 1⅛	.090	¾	¾ x 7	20	200	17
No. 4	1⅝ x 1⅜	.090	1	¾ x 7	20	200	24
No. 6	2⅛ x 1⅛	.104	1	1 x 9	20	200	32
No. 8	2½ x 1¾	.134	1¼	1¼ x 12	20	200	40

Hager

EVERYTHING HINGES ON HAGER

133

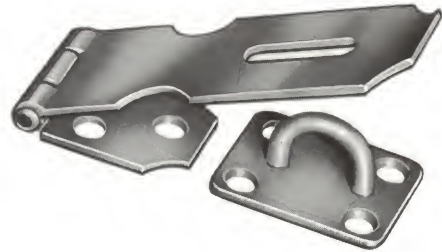
Light Box Hasps

RIVETED PIN • FIXED STAPLE

1346

STEEL
WITH SCREWS

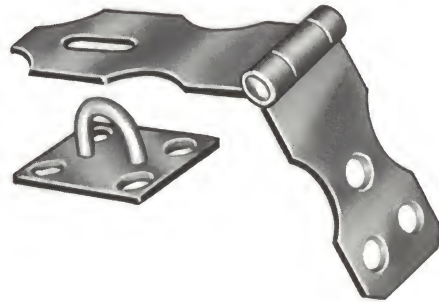
LENGTH OF SLOTTED PART—2 $\frac{3}{8}$ "
LENGTH OF HINGE PART—1"
LENGTH OF JOINT—15/16"
GAUGE OF METAL—.056
STAPLE SIZE—1 $\frac{1}{8}$ " x 15/16"
SCREW INFORMATION—7- $\frac{3}{8}$ x 4
QUANTITY IN A BOX—10
QUANTITY IN A CARTON—100
CARTON WEIGHT, LBS.—12



1249

STEEL
WITH SCREWS

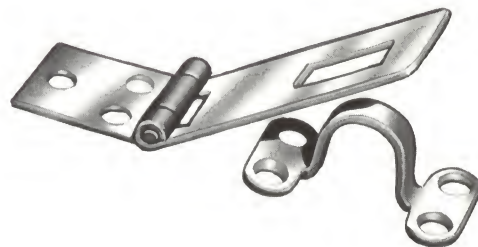
LENGTH OF SLOTTED PART—2"
LENGTH OF HINGE PART—1 $\frac{1}{2}$ "
LENGTH OF JOINT— $\frac{3}{4}$ "
GAUGE OF METAL—.048
STAPLE SIZE—15/16" x $\frac{3}{4}$ "
SCREW INFORMATION—7- $\frac{1}{2}$ x 3
QUANTITY IN A BOX—10
QUANTITY IN A CARTON—100
CARTON WEIGHT, LBS.—8



1344

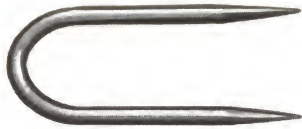
BRASS
WITH SCREWS

LENGTH OF SLOTTED PART—1 $\frac{1}{8}$ "
LENGTH OF HINGE PART—15/16"
LENGTH OF JOINT— $\frac{3}{4}$ "
GAUGE OF METAL—.037
STAPLE SIZE—1 $\frac{1}{8}$ " x $\frac{3}{4}$ "
SCREW INFORMATION—7- $\frac{1}{2}$ x 3
QUANTITY IN A BOX—10
QUANTITY IN A CARTON—100
CARTON WEIGHT, LBS.—7



Hooks or Staples

STEEL



WIRE STAPLE

2010

Size, Length	1	1¼	1½	2	2½	3	3½	4
Wire Diameter	.130	.130	.130	.160	.200	.180	.200	.200
Spread	1/4	3/8	3/8	1/2	3/4	5/8	3/4	3/4
Quantity in Box	100	100	100	100	100	100	100	100
Carton Quantity	1000	1000	1000	1000	1000	1000	1000	1000
Carton Weight, Lbs.	6½	8	9½	21	34	41	60	66



"S" HOOK

2978

Size, Length	1¾	2	2½	3⅝
Wire Diameter	.186	.240	.262	.370
Inside Eye Diameter	1/2	1/2	3/4	7/8
Quantity in Box	20	20	20	20
Carton Quantity	200	200	200	200
Carton Weight, Lbs.	7½	16½	23	35



HOOK AND STAPLE
ROUND WIRE

3012

Size, Length	4	5	6
Hook Wire Diameter	.262	.312	.312
Staple Length	2	2	2
Quantity in Box	20	20	20
Carton Quantity	200	200	200
Carton Weight, Lbs.	27	43	45



Hooks or Staples

STEEL

3014

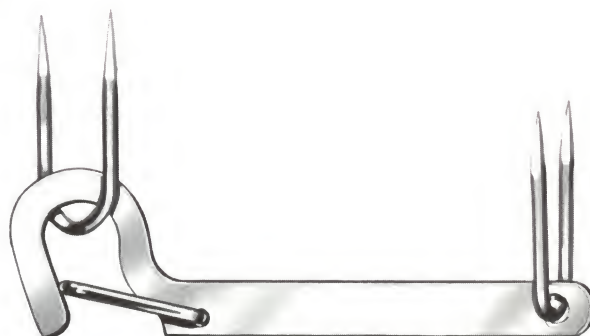
**HOOK AND PLATE STAPLE
WITHOUT SCREWS**



Size, Length	4	5
Hook Wire Diameter	.262	.312
Staple Size	1 1/2 x 1 1/8	1 1/2 x 1 1/8
Screw Size	3/4 x 7	3/4 x 7
Quantity in Box	20	20
Carton Quantity	200	200
Carton Weight, Lbs.	43	55 1/2

3010

SAFETY HOOK



Length Overall—	6"
Hook Width—	3/4"
Staple Length—	2 1/2"
Quantity in Box—	20
Carton Quantity—	200
Carton Weight, Lbs.—	55

2982

**AWNING HOOK
SQUARE**



Size, Length	3	4	5	6
Wire Thickness	.250	.250	.250	.262
Hook Projection	15/16	15/16	1	1
Quantity in Box	10	10	10	10
Carton Quantity	100	100	100	100
Carton Weight, Lbs.	5	8	9	11

Corner Irons & Braces

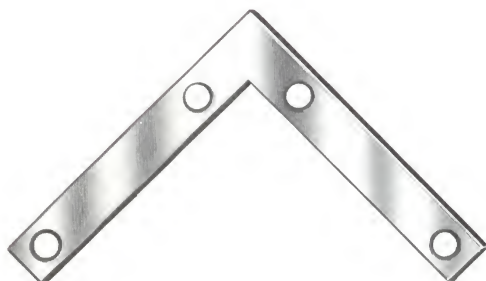
STEEL

INSIDE CORNER

1997



Size, Length Each Side	1	1½	2	2½	3	3½	4	5	6	8
Width	1½	1½	5/8	5/8	3/4	3/4	7/8	1	1 1/8	1 1/8
Gauge of Metal	.074	.083	.104	.120	.120	.134	.154	.154	.154	.187
Number of Screw Holes	2	4	4	4	4	4	4	6	6	8
Screw Size	3/4 x 6	3/4 x 6	3/4 x 8	3/4 x 8	1 x 9	1 x 9	1 x 10	1 1/4 x 12	1 1/4 x 12	1 1/4 x 12
Quantity in a Box	25	25	25	25	25	25	10	10	10	10
Carton Quantity	1000	1000	500	500	250	200	100	100	60	60
Carton Weight, Lbs.	19	36	34	50	40	37	35	54	37	47



FLAT CORNER

1998

Size, Length Each Side	1½	2	2½	3	3½	4	5	6	8
Width	3/8	3/8	1/2	1/2	1/2	3/4	7/8	7/8	1 1/2
Gauge of Metal	.065	.074	.074	.074	.074	.074	.074	.083	.090
Number of Screw Holes	4	4	4	4	4	4	4	6	6
Screw Size	5/8 x 5	5/8 x 5	3/4 x 6	3/4 x 6	3/4 x 8	3/4 x 8	1 x 9	1 x 9	1 x 9
Quantity in a Box	25	25	25	25	25	25	25	25	10
Carton Quantity	1000	1000	1000	500	500	500	200	200	60
Carton Weight, Lbs.	18	27	45	30	28	54	32	46	38

Braces

STEEL

1994

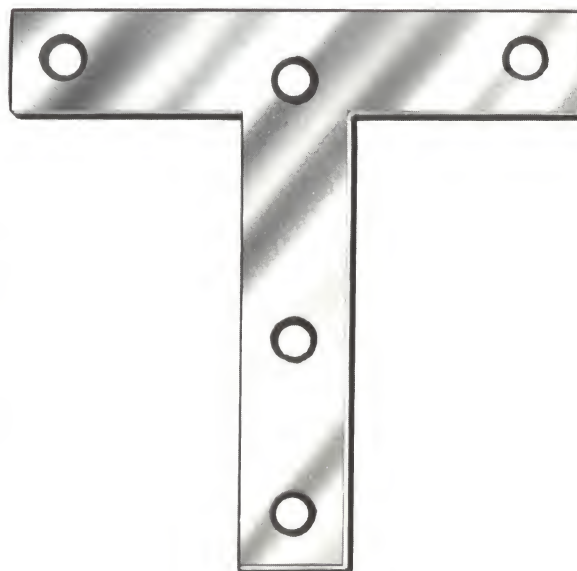
MENDING PLATE



Size Length	2	2½	3	3½	4	5	6	8	10
Width	5/8	5/8	3/4	3/4	7/8	1	1 1/8	1 1/4	1 1/4
Gauge of Metal	.074	.074	.074	.083	.083	.104	.104	.134	.154
Number of Holes	2	4	4	4	4	4	4	4	6
Screw Size	3/4 x 6	3/4 x 6	3/4 x 7	3/4 x 8	3/4 x 8	3/4 x 8	1 x 9	1 x 10	1 x 10
Quantity in a Box	25	25	25	25	25	25	25	10	10
Carton Quantity	1000	1000	500	250	250	250	200	100	100
Carton Weight, Lbs.	21	35	26	18	24	42	41	36	52

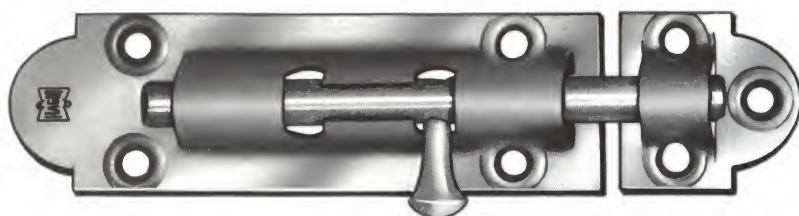
1995 1/2

T PLATE



Size, Leg Lengths	3 x 3	4 x 4	5 x 5
Width	5/8	3/4	1
Gauge of Metal	.083	.083	.083
Number of Holes	5	5	5
Screw Size	3/4 x 8	3/4 x 8	3/4 x 9
Quantity in a Box	25	25	25
Carton Quantity	250	250	100
Carton Weights, Lbs.	16	30	21

Bolts



BARREL BOLTS

STEEL

GOVT. #F1011

STEEL

GOVT. #1011

BRASS

1403

WITHOUT SCREWS

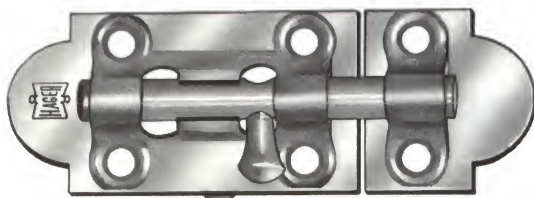
WS1403

WITH SCREWS

WS1503

WITH SCREWS

Size, Length of Bolt	2¼	2½	3	4	5	5¾
Diameter of Bolt	.250	.250	.312	.312	.375	.375
Size of Plate	2⅛ x 1⅛	2½ x 1⅛	3 x 1¼	4 x 1⅜	4 x 1¼	5 x 1¼
Size of Strike	1⅛ x 1	1⅛ x 1	1¼ x 1¼	1⅜ x 1⅜	1¼ x ⅝	1¼ x ⅝
Gauge of Metal	.051	.051	.060	.060	.052	.055
Screw Information	6-⅝ x 5	6-⅝ x 5	7-¾ x 6	7-¾ x 6	6-¾ x 6	6-¾ x 6
Quantity in a Box	10	10	10	10	10	10
Carton Quantity	100	100	100	100	100	100
Carton Weight, Lbs.	10	11	18	23	34	42



CELLAR WINDOW BOLT

STEEL

1405

WITHOUT SCREWS

WS1405

WITH SCREWS

Length of Bolt—2½"
 Bolt Diameter—.250
 Size of Plate—2½ x 1⅛
 Size of Strike—1⅛ x 1
 Gauge of Metal—.051
 Screw Information—6-⅝ x 5
 Quantity in a Box—10
 Carton Quantity—100
 Carton Weight, Lbs.—12

Bolts

STEEL

1400

WITH SCREWS

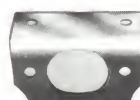
CHAIN BOLT

GOVT. #F1023A

Surface Strike
for Doors
Opening in



Angle Strike
for Doors
Opening Out



Size, Bolt Length	6	8	10
Case Size	5 x 2 1/4	7 x 3 1/8	9 x 3 1/8
Gauge of Metal	.060	.060	.060
Diameter of Bolt	3/4	3/4	3/4
Throw	1 1/2	1	1
Chain Length	24	24	24
Surface Strike	2 3/8 x 1	2 3/8 x 1	2 3/8 x 1
Angle Strike	2 x 1 1/2 x 1 1/8	2 x 1 1/2 x 1 1/8	2 x 1 1/2 x 1 1/8
Screw Size	3/4 x 8	3/4 x 8	3/4 x 8
Quantity in a Box	5	5	5
Carton Quantity	50	20	20
Carton Weight, Lbs.	48	32	35

1401

WITH SCREWS

FOOT BOLT

GOVT. #F1023B

Size, Bolt Length	6	8	10
Case Size	5 x 2 1/4	7 x 3 1/8	9 x 3 1/8
Gauge of Metal	.060	.060	.060
Diameter of Bolt	3/4	3/4	3/4
Throw	3/4	3/4	3/4
Strike Size	2 3/8 x 1 1/4	2 3/8 x 1 1/4	2 3/8 x 1 1/4
Screw Size	1 x 8	1 1/4 x 10	1 1/4 x 12
Quantity in a Box	5	5	5
Carton Quantity	50	20	20
Carton Weight, Lbs.	40	23	32

Positive Action



Bolts

STEEL



CANE BOLT

GOVT. #F1051

1408

WITH SCREWS

Cadmium Plated Rod
and Japanned Guides

Size, Length	12	18	24
Bolt Diameter	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$
Guide Size	$2\frac{5}{8} \times 1$	$1\frac{1}{2} \times 2\frac{3}{8}$	$2\frac{3}{8} \times 1\frac{1}{2}$
Screw Size	$\frac{3}{4} \times 8$	$1\frac{1}{4} \times 12$	$1\frac{1}{4} \times 12$
Quantity in Box	2	2	2
Carton Quantity	20	20	20
Carton Weight, Lbs.	27	61	73



PADLOCK EYES

*GOVT. #F1430D

1931

WITH SCREWS

	No. 1	No. 2
Size	$1\frac{5}{8} \times 1\frac{5}{16}$	$2\frac{1}{8} \times 7\frac{7}{8}$
Gauge of Metal	.085	.104
Size of Eye	$\frac{1}{2} \times 7\frac{1}{16}$	$\frac{3}{4} \times \frac{5}{8}$
Screw Size	$\frac{3}{4} \times 8$	$\frac{3}{4} \times 8$
Pair in Box	10	10
Pair in a Carton	100	100
Carton Weight, Lbs.	10	17



Size, Length— $2\frac{1}{2}$ "
Width— $1\frac{3}{16}$ "
Gauge of Metal—.032
Screw Size— $\frac{3}{4} \times 6$
Quantity in a Box—50
Quantity in a Carton—500
Carton Weight—6 Lbs.

DOOR BUTTON

1407

WITHOUT SCREWS

WS1407

WITH SCREWS

Brackets

STEEL • GREY ENAMEL

1796

WITHOUT SCREWS

WS1796

WITH SCREWS

SHELF BRACKET

GOVT. #F1068



Size (Inches)	3 x 4	4 x 5	5 x 6	6 x 8	8 x 10	10 x 12	12 x 14
Gauge of Metal	.036	.036	.053	.053	.053	.053	.047
Screws, Shelf	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7	$\frac{3}{4}$ x 7
Screws, Wall	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7	$1\frac{1}{4}$ x 7
Pair in a Box	12	12	12	12	12	12	—
Pair in a Carton	144	144	144	144	72	72	12
Carton Weight, Lbs.	28	35	53	92	68	85	18

Brackets

GREY ENAMEL • STEEL

SHELF AND ROD SUPPORT

1797

WITH SCREWS



HOLDS 1 3/8" ROD
SUPPORTS 12" SHELF
DOUBLE WELDED
SIZE—11" x 10 3/4"
GAUGE OF METAL—.122
WIDTH—1"
WALL SCREW SIZE—1 1/2 x 10
SHELF SCREW SIZE—3/8 x 8
CARTON QUANTITY—10
CARTON WEIGHT—14 LBS.

SHELF AND ROD SUPPORT

1798

WITH SCREWS



HOLDS 1 3/8" ROD
SIZE—13"
GAUGE OF METAL—.125
WIDTH—1"
SCREW SIZE—1 1/2 x 10 AND 3/8 x 8
CARTON QUANTITY—10
CARTON WEIGHT, LBS.—8



Closet Hardware

1795

WITH SCREWS

CLOSET ROD

STEEL • GOVT. #F1171

Quick Mount End
 .035" Seamless Tubing 1" O.D.
 Chromium or Gold Plated
 Poly Bag Packed
 Center Support with
 72" and 96" Size



Size	18	30	48	72	96
For Closets up to	30	48	72	96	120
Quantity in Carton	5	5	5	5	5
Carton Weight, Lbs.	6	10	13	18	22

1793

POLE SOCKETS

STEEL • BRASS FINISH

For Poles up to 1 3/8"
 Outside Diameter—2 1/4"
 Projection—3/8"
 Poly Bagged with 5/8 x 4 Screws
 Quantity in a Box—10
 Carton Quantity—100
 Carton Weight—8 Lbs.
 *Also available in Bildors Pak—BL1793



1794

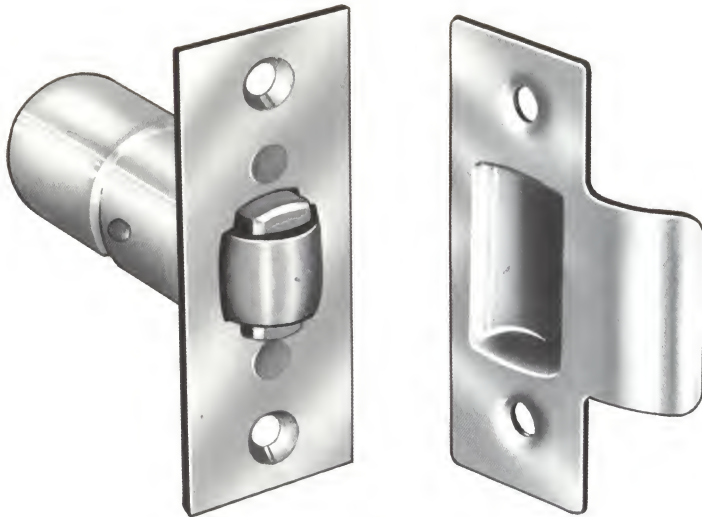
POLE SOCKETS

PLASTIC

For Poles up to 1 3/8"
 Outside Diameter—2 3/16"
 Projection—9/16"
 Poly Bagged with 1 x 8 Screws
 Quantity in a Box—10
 Carton Quantity—100
 Carton Weight—6 Lbs.
 *Also available in Bildors Pak—BL1794



Roller Latches



Brass Yoke, Roller,
Case, Face Plate and Strike
Adjustable Bolt Throw

LARGE
BRASS

1435

SMALL
BRASS

1436

	#1435	#1436
Face Plate Size	2 1/4 x 7/8	1 5/8 x 9/16
Strike Size	2 1/4 x 1 1/16	1 5/8 x 9/16
Case Size	3/4 x 1 5/8	1/2" x 1"
Max. Bolt Throw	3/8"	5/16
Min. Bolt Throw	3/16"	1/8"
Wood Screw Size	3/4 x 6	1/2 x 4
Quantity in a Box	10	10
Quantity in Carton	50	50
Carton Weight	13	7



Adjustable Roller Projection

FORGED BRONZE

1442

Silent Rubber Roller
Face Plate Size—3 3/8 x 1
Strike Size—2 1/4 x 1 1/16
Case Size—1 3/4 x 7/8
Quantity in a Box—1
Quantity in a Carton—20
Carton Weight—10 lbs.
Packed with Both 1 1/4 x 10 Wood Screws
and 1/2 x 10-24 Machine Screws

Latches and Pulls

STEEL

1930

WITH SCREWS

THUMB LATCH

GOVT. #F1188

Size	No. 2	No. 3	No. 4
Handle Length	6 ³ / ₄	7 ¹ / ₂	8 ⁷ / ₈
Grip Length	4 ¹ / ₄	4 ¹ / ₂	5 ¹ / ₂
Latch Bar Length	4 ¹ / ₄	5 ¹ / ₄	8 ¹ / ₂
For Door Size	5 ⁵ / ₈ to 1 ³ / ₄	3 ³ / ₄ to 1 ⁷ / ₈	1 ¹ / ₄ to 2 ⁵ / ₈
Screw Size	3 ³ / ₄ x 8	1 x 9	1 ¹ / ₄ x 12
Sets in a Box	1	1	1
Carton Quantity	50	25	25
Carton Weight, Lbs.	25	19	30



1960

WITH SCREWS

PULL

GOVT. #1275

Size	No. 1	No. 2	No. 3
Handle Length	5 ¹ / ₈	5 ³ / ₄	6 ¹ / ₂
Gauge of Metal	.040	.046	.050
Width	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄
Grip Length	3 ³ / ₈	4	4 ¹ / ₂
Screw Size	3 ³ / ₄ x 7	3 ³ / ₄ x 7	3 ³ / ₄ x 9
Number in a Box	10	10	10
Carton Quantity	100	100	100
Carton Weight, Lbs.	12	15	24



1208

WITH SCREWS

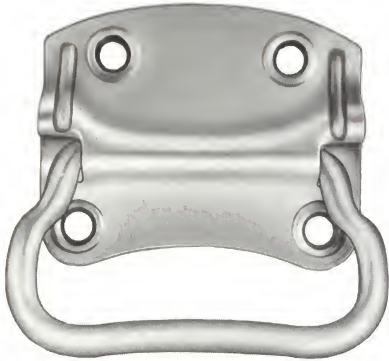
PULL

Handle Length—8"
Gauge of Metal—.109
Grip Length—4¹/₂"
Width—1¹/₈"

Screw Size—1¹/₄ x 12
Number in a Box—5
Carton Quantity—25
Carton Weight, Lbs.—8



Misc. Hardware



CHEST HANDLE

STEEL

1964

WITH SCREWS

LENGTH OF GRIP— $3\frac{1}{2}$ "
 BACK PLATE SIZE— $3\frac{3}{8}$ x $2\frac{15}{16}$
 GAUGE OF METAL—.062
 GAUGE OF WIRE—.343
 SCREW SIZE— $\frac{7}{8}$ x 10
 PAIR IN A BOX—5
 CARTON QUANTITY—50
 CARTON WEIGHT—43 LBS.



BAR HOLDER

STEEL

1957

WIDTH— $1\frac{1}{2}$ "
 GAUGE OF METAL—.187
 LENGTH OVERALL—7"
 INSIDE SIZE—2 x $4\frac{3}{8}$
 HOLE SIZE— $\frac{11}{32}$
 PACKED TO ORDER
 WEIGHT PER 100—80 LBS.



BAR HOLDER

STEEL

1959

WIDTH— $1\frac{1}{2}$
 GAUGE OF METAL—.250
 LENGTH OVERALL— $7\frac{1}{2}$ "
 OFFSET FOR 2" x 4"
 HOLE SIZE— $\frac{5}{16}$
 PACKED TO ORDER
 WEIGHT PER 100—100 LBS.

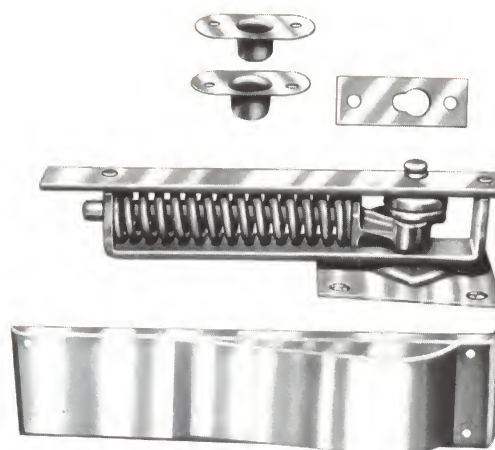
Misc. Hardware

1433

FLOOR HINGE

DOUBLE ACTING

FOR DOORS FROM 1 1/8" TO 1 3/4"
 REVERSIBLE SIDE PLATES
 BALL BEARINGS
 HOLDS OPEN AT 90°
 SIZE, SIDE PLATE—9 1/2 x 2 3/8
 SIZE, FLOOR PLATE—3 3/8 x 2 3/4
 SIZE, ATTACHING PLATE—2 1/4 x 7/8
 SOCKET SIZE—7/8 x 2 3/8
 PIVOT SIZE—1 1/2" DIAMETER
 ONE SET IN A BOX WITH SCREWS
 10 SETS IN A CARTON
 CARTON WEIGHT—26 LBS.



211

DOOR STOP

FLEXIBLE TYPE

DIE CAST BASE
 FLEXIBLE SPRING
 NON MARKING WHITE TIP
 LENGTH—3"
 SCREW SIZE—1/2"
 NUMBER IN A BOX—10
 CARTON QUANTITY—100
 CARTON WEIGHT—6 LBS.
 *ALSO AVAILABLE IN BILDORS PAK



Misc. Hardware



CHAIN DOOR GUARD

STEEL

1410

CHAIN DOOR GUARD

BRASS

1510

WELDED CHAIN

ALLOWS 3" DOOR OPENING

DOOR PLATE SIZE— $3\frac{3}{8}$ x $1\frac{1}{8}$

JAMB PLATE SIZE— $2\frac{1}{8}$ x $1\frac{1}{8}$

GAUGE OF METAL—.062"

CHAIN LENGTH—6"

SCREW SIZE— $\frac{3}{4}$ x 7

NUMBER IN A BOX—10

CARTON QUANTITY—100

CARTON WEIGHT—28 LBS.



HANDY HANGER

STEEL

10

ALL PURPOSE HANGER

WIDTH— $2\frac{5}{8}$ "

PROJECTION— $2\frac{7}{8}$ "

GAUGE OF METAL—.090

CARDED FOR SALES APPEAL

25 CARDS TO MERCHANDISER

CARTON QUANTITY—100

CARTON WEIGHT—24 LBS.



Display Merchandiser

Hager

EVERYTHING HINGES ON HAGER

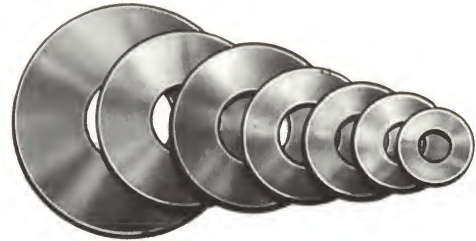
149

Washers and Burrs

STEEL

1978

ROUND WASHERS



Size for Bolt	Hole Size	Outside Diameter	Thickness	Estimated Number in 100 Pounds	Size for Bolt	Hole Size	Outside Diameter	Thickness	Estimated Number in 100 Pounds
3/16	1/4	9/16	3/64	36,200	7/8	15/16	2 1/4	11/64	652
1/4	5/16	3/4	1/16	14,900	1	1 1/16	2 1/2	11/64	532
5/16	3/8	7/8	1/16	11,100	1 1/8	1 1/4	2 3/4	11/64	454
3/8	7/16	1"	5/64	6,700	1 1/4	1 3/8	3	11/64	384
7/16	1/2	1 1/4	5/64	4,100	1 1/2	1 5/8	3 1/2	3/16	260
1/2	9/16	1 3/8	7/64	2,600	1 3/4	1 7/8	4	3/16	200
9/16	5/8	1 1/2	7/64	2,200	2	2 1/8	4 1/2	3/16	159
5/8	1 1/16	1 3/4	1/8	1,300	2 1/2	2 5/8	5	15/64	104
3/4	1 3/16	2	5/32	910	3	3 1/8	5 1/2	9/32	77

Regular Packing— Bulk in 200 Lb. Cartons

Special Packing— 1.) 100 Lb. Cartons

2.) 5 Lb. Boxes (10 Boxes in Carton)

3.) 1 Lb. Boxes (50 Boxes in Carton)

Finishes— Plain (PS)

Cadmium Plated (CP)

Hot Dip Galvanized (G)

1982

SQUARE WASHERS

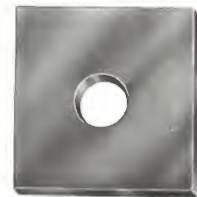
1 1/2" to 6" Square

Thickness up to 1/4"

for Bolt Size 3/8 to 1 1/2"

Packed in Bulk to Order

Specify Size, Thickness, and Bolt Size



1979

RIVETING BURRS

Packing and Finishes the Same as Washers

Size for Rivet	Hole Size	Outside Diameter	Thickness	Estimated Number in 100 Pounds
1/8"	9/64	3/8	.046	90,000
3/16"	13/64	1/2	.046	51,000
1/4"	17/64	5/8	.046	40,000



Misc. Hardware

STEEL

HINGE REINFORCEMENT

4-HOLE • FOR METAL FRAMES

305



Size Template Hinges	Width	Length	Offset	Gauge of Metal	Tapped for Screw	Weight per 100
3 1/2	1 13/32	10	.070	.156	10-24	58
4	1 1/2	10	.065	.156	12-24	78
4 1/2	1 1/2	10	.074	.156	12-24	78
5	1 1/2	10	.085	.156	12-24	78

Plain Steel

Packed to Order.

Available with Welding Projections upon Request.

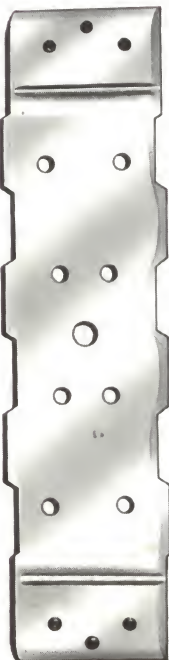
HINGE REINFORCEMENT

8-HOLE • FOR METAL DOORS

451006

4-HOLE • FOR METAL DOORS

4512



Plain Steel

For 4 1/2" Template Hinges.

Available with Welding Projections upon Request

8 Holes are positioned so That

When Reinforcement is
Positioned in Center of
Door, Door is Then Not
Handed.

For Use With #410 Filler Plate

Length—6 5/8"

Width—1 1/2"

Offset (8 hole)—.109"

Offset (4 hole)—.074"

Gauge of Metal—.156

Tapped for 12-24 Machine Screws

Weight per 100—44 Lbs.

Hager

EVERYTHING HINGES ON HAGER

151

Misc. Hardware

STEEL

410

FILLER PLATE

Primed for Painting
For Use with #45 1006 Reinforcement.
Door is Reversible and This Fills
the Gap between edge of Hinge
and Edge of Door
Punched for $4\frac{1}{2}$ " Template Hinges
Length— $4\frac{1}{2}$ "
Overall Width— $1\frac{5}{8}$ "
Gauge of Metal—.035"
Weight per 100—8 Lbs.
Packed to Order



100

SET SCREW SET

This Set Enables Dealers to
Convert Removable Pin Hinges
to Non-Removable Pin (Set Screw
in Barrel) Hinges as Required.

Set Consists of:

- 1—Tap Wrench
- 1—10-24 Tap
- 1—#25 Drill
- 300— $\frac{1}{8}$ x 10-24 Set Screws
- 300— $\frac{3}{16}$ x 10-24 Set Screws





SONS HINGE MANUFACTURING COMPANY, ST. LOUIS 4, MO. • HAGER HINGE CANADA LIMITED, KITCHENER, ONTARIO

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